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scientific american mcat book create book study mcat chapter 1 amino acid peptide protein 1.1 amino acid find protein 1.2 acid base chemistry amino acid 1.3 peptide bond formation hydrolysis 1.4 primary secondary protein structure 1.5 tertiary quaternary protein structure chapter 2 enzyme 2.1 enzyme biological catalyst 2.2 mechanism enzyme activity 2.3 enzyme kinetics 2.4 effect local condition enzyme activity 2.5 regulation enzyme activity chapter 3 nonenzymatic protein function protein analysis 3.1 cellular function 3.3 protein isolation 3.4 protein analysis chapter 4 carbohydrate structure function 4.1 carbohydrate classification 4.2 cyclic sugar molecule 4.4 complex carbohydrate chapter 5 lipid structure function 5.1 structural lipid 5.2 signaling lipid 5.3 energy storage chapter 6 dna biotechnology 6.1 dna structure 6.2 eukaryotic chromosome organization 6.3 dna replication 6.4 dna repair 6.5 recombinant dna biotechnology chapter 7 rna genetic code 7.1 genetic code 7.4 control gene expression prokaryote 7.5 control gene expression eukaryote chapter 8 biological membrane 8.1 fluid mosaic model 8.2 membrane component 8.3 membrane transport 8.4 specialized

membrane chapter 9 carbohydrate metabolism glycolysis glycogen gluconeogenesis pentose phosphate 9.1 glucose transport 9.3 monosaccharide 9.4 pyruvate dehydrogenase 9.5 glycogenesis glycogenolysis 9.7 pentose phosphate pathway chapter 10 carbohydrate metabolism ii aerobic respiration 10.2 reaction citric acid cycle 10.3 electron transport chain 10.4 oxidative phosphorylation chapter 11 lipid amino acid metabolism 11.1 lipid digestion absorption 11.2 lipid mobilization 11.3 lipid transport 11.4 cholesterol metabolism 11.5 fatty acid triacylglycerol 11.6 ketone body 11.7 protein catabolism chapter 12 bioenergetic regulation metabolism 12.1 thermodynamic bioenergetics 12.2 role atp 12.3 biological oxidation reduction 12.4 metabolic state 12.5 hormonal regulation metabolism 12.6 tissue specific metabolism 12.7 integrative metabolism alexander stone macnow md tyra hall pogar phd bela g. starkman phd joshua d. brooks phd kaplan mcat faculty alisha maureen crowley kaplan mcat faculty samer t. ismail kaplan mcat faculty kelly kyker snowman

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set aside time prep sure rest application personal statement recommendation material ready moment admire complete checklist business preppe exam start long fruitful journey wear white coat proudly wear white coat hopefully motivation read book want healer go medical school likely familiar importance mcat medical school admission holistic review process put additional weight experience extracurricular activity personal attribute fact remain gpa mcat score remain important component application portfolio early admission process additional point score mcat push thousand student make attractive applicant mcat simply obstacle overcome opportunity school strong student future leader medicine kaplan job seriously aim help student success mcat future physician work learning science expert ensure date teaching technique resource multiple member team hold advanced degree medicine associate biomedical science committed high level medical education kaplan work mcat 50 year commitment premed student unflagging fact stanley kaplan create company difficulty accept medical school unfair quota system exist time stand beginning new era medical education citizen 21st century world healthcare charge create patient orient culturally competent cost conscious universally available technically advanced research focus healthcare system run compassionate provider suffice easy task problem- base learning integrated curriculum class interpersonal skill response demand excellent workforce workforce soon thrilled choose help journey reach share challenge concern success shape future medicine united states abroad look forward help doctor deserve alexander stone macnow md department pathology laboratory medicine hospital university pennsylvania ba musicology boston university 2008 md perelman school medicine university pennsylvania 2013 world premier science technology magazine old continuously publish magazine united states scientific american commit bring important development modern science medicine technology worldwide audience understandable credible provocative format found 1845 cutting edge scientific american boast

nobel laureate author include albert einstein marie curie francis crick christiane nüsslein volhard stanley prusiner richard axel scientific american forum scientific theory discovery explain broad audience scientific american publish international edition 1890 1979 north american magazine publish people republic china today scientific american publish 14 additional language edition scientific american lead online destination www.scientificamerican.com provide late science news exclusive feature million visitor month knowledge fill page power spark new idea paradigm vision future science race forward scientific american continue cover promising stride inevitable setback challenge new medical discovery unfold anatomy mcat general overview structure test day chemical physical foundations biological critical analysis reasoning skills cars lunch break optional biological biochemical foundations live psychological social biological foundations satisfaction survey optional structure section mcat show chemical physical foundations biological systems 44 question passage base 15 discrete stand- score 118 132 test general chemistry 30 organic chemistry 15 critical analysis reasoning skill cars question passage base discrete score 118 132 test social science 50 foundation comprehension 30 reasoning text 30 reasoning text 40 biological biochemical foundation living systems chemical physical foundation biological systems 44 question passage base 15 discrete stand- score 118 132 test general chemistry 5 organic chemistry 5 psychological social biological foundations behavior 44 question passage base 15 discrete stand- score 118 132 test 375 minute 6 hour 15 minute total seat time 447 minute 7 hour 27 minute 472 528 scientific inquiry reasoning skill aamc define scientific inquiry reasoning skill

sirs test science section mcat 1 knowledge scientific concept principle 35 question 2 scientific reasoning problem solving 45 question 3 reasoning design execution research 10 4 data base statistical reasoning 10 question let break specific test day behavior note bullet point specific

objective sir take directly official guide mcat exam description behavior mean sample question stem write kaplan skill 1 knowledge scientific concept principle probably surprising sir testing science knowledge signature quality mcat skill 1 question require following recognize correct scientific principle identify relationship closely relate concept identify relationship different representation concept verbal symbolic graphic identify example observation illustrate scientific principle use mathematical equation solve problem kaplan simply science knowledge skill 1 question way think skill 1 question step problem single step realize scientific concept question stem suggest concept state question stem identify answer choice accurate application skill 1 question particularly prominent discrete question associate passage question opportunity gain quick point test day know science concept attach question test day 35 question science section skill 1 sample skill

1 question stem proponent james lange theory emotion interpret finding study cite passage following accurately describe function fsh human menstrual cycle product reaction 1 reaction 2 combine solution result reaction form ionic bond maintain following force skill 2 scientific reasoning problem solving mcat science section course test straightforward science knowledge skill 2 question common way kaplan critical thinking question skill 2 question require following reason scientific principle theory model analyze evaluate scientific explanation prediction evaluate argument cause consequence bring theory observation evidence draw conclusion recognize scientific finding challenge invalidate scientific theory model determine use scientific formula solve problem skill 1 question think step problem skill 2 question step problem difficult skill 2 question require step question require wide spectrum reasoning skill include integration multiple fact passage combination multiple science content area prediction experiment result skill 2 question tend ask science content actually mention example question describe result experiment ask predict result second experiment actually tell underlie scientific principle work question difficulty figure principle apply order correct answer test day 45 question science section skill 2 question sample skill 2 question stem

following experimental condition likely yield result similar figure 2 following conclusion support information passage likely cause anomalous result find impact person chest quickly reduce volume lung 70 initial value allow air escape mouth percentage force outward air pressure increase 2 cm2 portion inner surface skill 3 reasoning design execution research mcat interested ability critically appraise analyze research important day day task physician question skill 3 experimental research design question short skill 3 question require follow identify role theory past finding observation scientific identify testable research question hypothesis distinguish sample population distinguish result support generalization population identify independent dependent variable reason feature research study suggest association variable causal relationship temporality random assignment identify conclusion support research result determine implication result

random assignment identify conclusion support research result determine implication result real world situation reason ethical issue scientific research year aamc receive input medical school require practical research skill mcat test taker skill 3 question response demand skill unique outside knowledge need answer skill 3 question teach undergraduate course instead research design principle need answer question learn gradually science class especially laboratory work complete note skill 3 comprise 10 question science section test day sample skill 3 question stem dependent variable study describe passage major flaw method measure disease susceptibility experiment 1 follow procedure important experimenter follow order study maintain proper randomized sample research subject researcher like test hypothesis individual urban area adulthood likely car live urban area birth follow study well test hypothesis skill 4 data base statistical reasoning lastly science section mcat test ability analyze visual numerical result experiment study data statistical analysis question skill 4 question require use analyze interpret datum figure graph table evaluate representation sense particular scientific observation datum use measure central tendency mean median mode measure dispersion range interquartile range standard deviation

describe datum reason random systematic error reason statistical significance uncertainty interpret statistical significance level interpret confidence interval use datum explain relationship variable use datum answer research question draw conclusion skill 4 include mcat physician researcher spend time examine result study study important legitimate conclusion sound judgment base datum mcat test skill 4 science section graphical representation datum chart bar graph numerical one table list result summarize sentence paragraph form test day 10 question science section skill 4 question sample skill 4 question stem accord information passage inverse conclusion well support finding display figure medical test rare type heavy metal poisoning return positive result 98 affect individual 13 unaffected individual

following type error prevalent fourth trial experiment 1 run yield result 54 compliance following true discuss sir test mcat daunting prospect give nature skill tend conversation abstract practice able identify skill quickly able apply proper strategy solve problem test day need quick reference remind sir guideline help skill 1 science knowledge question ask remember science content skill 2 critical thinking question ask remember science content apply novel situation answer question cleverly combine multiple content area time skill 3 experimental research design question ask let forget science content insight experimental research method involve skill 4 data statistical analysis question ask let forget science content accurately read graph table moment conclusion extrapolation base information present critical analysis reasoning skills critical analysis reasoning skills cars section mcat test discrete family textual reasoning skill family require high level reasoning skill 1 foundation comprehension 30 question 2 reasoning text 30 question 3 reasoning text 40 question skill test humanities- social science theme passage approximately 5 7 question passage let depth look skill bullet point specific objective cars take directly official guide mcat exam description behavior mean sample question stem write kaplan foundation comprehension questions skill ask basic fact simple inference passage question similar see reading comprehension section

standardized exam like sat ® act ® foundation comprehension question require understand basic component text infer meaning rhetorical device word choice text structure admittedly cover wide range potential question type include main idea detail inference definition context question find correct answer foundations comprehension question follow basic understanding passage point view author occasionally voice passage sample foundations comprehension question stem main idea author primary purpose passage detail base information second paragraph follow accurate summary opinion hold scattered detail accord passage follow false literary review 1920s inference implication)—which following phrase passage suggestive author personal bias narrative record history inference assumption)—in

passage suggestive author personal bias narrative record history inference assumption)—in put argument passage author likely assume definition context word obscure paragraph 3 reference historian action nearly mean reasoning text foundation comprehension question usually depend interpret single piece information passage understand passage reasoning text question require thought ask identify purpose particular piece information context passage ask piece information relate reasoning text question require integrate different component text draw relevant cars section ask judge certain part passage judge author question fall reasoning text skill ask identify authorial bias evaluate credibility cite source determine logical soundness argument identify importance particular fact statement context passage search relevant evidence passage support give conclusion category include function strengthen weaken passage question smattering related rare sample reasoning text question stem function author discussion effect socioeconomic status social mobility primarily serve follow strengthen weaken passage)—which follow fact passage prominent piece evidence favor author conclusion strengthen weaken passage)—based role play author argument possessed consider reasoning text distinguish factor reasoning text question title skill word question test skill large share cars section question skill introduce completely new situation present passage question ask determine influence reasoning text question require apply extrapolate

idea passage new context assess impact introduce new factor information condition idea passage reasoning text skill divide apply strengthen weaken passage question rarely appear question type sample reasoning text question stem apply document locate demonstrate berlioz intend include chorus 700 grande messe des morts author likely respond apply follow good example virtuous rebellion define passage strengthen weaken passage)—suppose jane austen write letter sister strong character force circumstance confront basic question society live relevance strengthen weaken passage)—which follow sentence add end passage weaken author conclusion paragraph foundations comprehension skill cars section test reading skill build grade school albeit context challenging doctorate level passage skill reasoning text reason text mcat demand understand

level passage skill reasoning text reason text mcat demand understand deep structure passage argument advanced level course test tight timing restriction 102 second question include time spend read passage quick reference guide cars skill foundations comprehension question ask understand passage main idea passage particular detail true author reasoning text question ask logical relationship idea argued author thesis reasoning text question ask principle passage apply new situation new piece information influence argument section mcat score 118 132 median approximately 125 mean total score range 472 528 median 500 peculiar number aamc stress scale emphasize importance central portion score distribution student score 125 section 500 total put undue focus high end note wrong answer penalty mcat select answer question guess aamc release 2018–2020 correlation scale score percentile show follow page note percentile scale adjust renormalize time shift slightly year year percentile rank update release aamc 1 year source aamc 2021 summary mcat total section score access december information score reporting include end section test mcat policy procedures strongly encourage download late copy mcat ® essentials available aamc website

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summary important rule provide way register mcat online access aamc registration system www.aamc.org/mcat able access site approximately month test day aamc designate registration zones"—gold silver bronze register gold zone opening registration approximately month test day provide flexibility low test fee silver zone run approximately week test day flexibility high fee bronze zone run approximately week test day flexibility high fee fee fee assistance program fap payment test registration mastercard visa describe early fee register mcat reschedule exam change testing center increase approach test day addition uncommon test center fill advance registration deadline reason recommend identify preferred test day soon possible register ancillary benefit have set test day know date work study hard likely push exam aamc offer fee assistance program fap student financial hardship help reduce cost take mcat american medical college application service amcas ® application information fap find www.aamc.org/students/applying/fap test day require present qualify form id generally current driver license united states passport sufficient consult aamc website list qualify criterion register care spell name middle name suffix prefix require verify test day precisely appear id failure provide id test center difference spelling registration id consider receive refund exam test day registration identity datum collect include digital palm vein scan test day photo digitization valid id signature testing center use metal detection wand ensure prohibit item bring testing room prohibited item include electronic device include watch timer calculator cell phone form record equipment food drink include water cigarette smoking paraphernalia hat scarf religious purpose book note study material require medical device insulin pump pacemaker apply accommodate testing break allow access food drink electronic device include testing center video surveillance aamc potential violation testing security lightly line know rule break student disability medical condition apply accommodate testing documentation

rule break student disability medical condition apply accommodate testing documentation disability condition require request month approve reason recommend begin process apply

accommodate testing early possible information apply accommodate testing find test mcat matter feel good leave test center celebrate nap watch movie exercise plan trip outing neglect friend message social media snack drink people like sure absolutely think hard deserve rest relaxation importantly discuss specific detail test important let stress test day relive exam inhibit able significantly examinee agreement sign beginning exam specifically prohibit discuss disclose exam content aamc know seek individual violate agreement retain right prosecute individual discretion mean circumstance discuss exam person phone individual include kaplan post information question exam content facebook student doctor network online social media permit comment general exam experience include feel exam overall individual section fine line summary certain discuss aspect test let silly facebook post stop doctor deserve score typically release approximately month test day release stagger afternoon evening end 5 p.m. eastern mean examinee receive score exactly time score report include scale score section 118 132 total combine score 472 528 score give confidence interval section confidence interval approximately give score ±1 total score approximately give score ±2 give correspond percentile rank section score total aamc contact information question contact mcat team association american medical colleges mcat resource center association american medical colleges kaplan mcat review project begin shortly release preview guide mcat 2015 exam 2nd edition thorough analysis staff psychometrician able analyze relative yield different topic mcat begin construct table content book kaplan mcat review series dedicated staff 30 writer 7 editor 32 proofreader work 5,000 combined hour produce book format book heavily influence weekly meeting kaplan learning science team year book create number opportunity expansion improvement occur current edition represent culmination wisdom accumulate time frame include new feature design improve

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mcat expect guide examples expert thinking embed chapter book guide example expert thinking guide example locate section content example example feature mcat- level scientific article simulate mcat experiment passage read passage real mcat refer expert thinking material right passage clarify key information gather paragraph read attempt answer associate question work passage explanation include

paragraph read attempt answer associate question work passage explanation include correct answer follow give question passage question design help build critical thinking experimental reasoning data interpretation skill preparation challenge face mcat follow guide type sidebar find kaplan mcat biochemistry review bridge sidebar create connection science topic appear multiple chapter kaplan mcat review key concept sidebar draw attention important takeaway give topic offer synopsis overview complex information understand sure grasp key concepts give subject mcat expertise sidebar point information test mcat offer key strategy point test taking tip apply test day mnemonic sidebar present memory device help recall real world sidebar illustrate concept text relate practice medicine world large information need know test day topic real world sidebar excellent example concept appear passage discrete stand question mcat book cover information present kaplan mcat review series cover list official mcat content list topic list cover level detail common undergraduate postbaccalaureate class consider prerequisite mcat note premedical class include topic discuss book depth book additional exposure science content bad thing content knowledge expect walk test day cover chapter profile page chapter represent holistic look content chapter include pie chart text information pie chart analysis base directly datum release aamc rough estimate importance chapter relation book text portion chapter profiles include aamc content category cover chapter reference directly aamc mcat exam content listing available testmaker website new high yield badge scatter section chapter 1.1 amino acid find protein note terminology stereochemistry amino acid structure amino acid hydrophobic hydrophilic amino amino acid abbreviation 1.2 acid base chemistry amino acid protonation deprotonation titration amino

acid 1.3 peptide bond formation peptide bond formation peptide bond hydrolysis 1.4 primary secondary protein 1.5 tertiary quaternary protein folding solvation layer 1.1 amino acid find chapter 1.1 able badge represent 100 topic test aamc word accord testmaker experience resource high yield

topic test aamc word accord testmaker experience resource high yield badge mean question test day book contain thorough glossary index easy navigation end book write margin draw diagram highlight key point necessary help high score look forward work achieve dream doctor deserve study book addition provide good practice question test strategy kaplan team learning scientist

dedicate research test good method get study time tip improve retention review multiple topic study session counterintuitive we're practice skill time order improve skill research show weave topic lead increase learning consideration mcat include topic single question study integrate manner effective way prepare test customize content draw attention difficult critical content ensure overlook read read section good way visual highlight tab use stickie work recommend highlight important difficult section text selective highlighting 10 text give chapter great emphasize part text over- highlighting opposite effect repeat topic time people try memorize concept repeat succession research show retention improve space repeat time mix order study content example try read chapter different order second time revisit practice question answer incorrectly new sequence information review recently help well understand question solution struggle past moment reflect finish read section time stop think read jot thought margin note content important topic come mind read associate learning memory fantastic way retain information work answer question answer question moment think step take arrive solution lead answer choose understand step take help good decision answer future question addition resource locate text additional online resource await www.kaptest.com/booksonline sure log advantage free practice resource note access online

resource limit original owner book year medical school frenzied experience student meet requirement rigorous work schedule student learn prioritize time fall hopelessly surprise mcat test specifically design predict success medical school high speed time intensive test mcat demand excellent time management skill endurance grace pressure test prepare have solid plan attack stick key give confidence structure need create study plan good time create study plan beginning mcat preparation use calendar want start purchase planner print free calendar internet use build calendar app smart device track interactive online calendar pick option practical likely use consistently calendar able start plan study schedule following step 1 fill

calendar able start plan study schedule following step 1 fill obligation choose day write school extracurricular work obligation class session work shift meeting attend add personal obligation appointment lunch date family social time etc make appointment calendar hang friend go movie strange plan social activity advance help achieve balance personal professional obligation life get busy have happy balance allow focused productive come time study stay round neglect important addition schedule personal professional obligation plan time take time important study kaplan recommend take day week ideally study obligation minimum study mcat 2 add study block obligation establish calendar framework add study block obligation keep study schedule consistent possible day week study time day official test ideal promote recall possible fit study block studying efficient possible block short frequent period study time week learning perspective study hour day day week valuable study hour day week specifically kaplan recommend study long hour sitting hour block plan minute break hour use break seat quick stretch snack drink clear mind minute break 50 minute study sound like lot break allow deal distraction rest brain 50 minute study block remain fully engaged completely focused 3 add length practice test want add length practice test want test early prep spread remain length practice test evenly test date staggering test way allow form baseline comparison determine area focus right away provide realistic feedback prep perform test day plan calendar aim finish length practice test majority studying week test day allow

spend final week complete brief review know online resource find sample study calendar different test day timeline use starting point sample calendar include focus need area fit timeline test day need customize study calendar need step total time spend study week depend schedule personal prep need time test day recommend spend range 300–350 hour prepare take official mcat

day recommend spend range 300–350 hour prepare take official mcat way break study hour day day week month approach study day week hour day study long period time time study week matter plan ensure complete practice feel completely comfortable mcat content good sign ready test day begin earn goal score consistently practice study mcat cover large material study test day initially daunting combat tip control studying time control content practice require mcat break content specific goal week instead attempt approach test goal want increase overall score 5 point big abstract difficult measure small scale reasonable goal read chapter day week goal like overwhelming help break studying manageable piece book information familiar probably see content careful familiarity subject necessarily translate knowledge mastery subject assume recognize concept actually know apply quickly appropriate level passively read book instead read actively use free margin space jot important idea draw diagram chart read highlight excellent tool use sparingly highlight sentence active reading color frequently stop ask question read e.g. main point fit overall scheme thing thoroughly explain make connection focus grand scheme ensure know essential content prepare level critical thinking require mcat focus area great opportunity limit have minimal time prepare test day focus big area opportunity area opportunity topic area highly test master likely will time detailed note page book instead use result practice material determine area big opportunity seek take length test sure performance report well identify area opportunity skim content matter demonstrate proficiency pause read thoroughly look unfamiliar particularly difficult begin science mastery assessment beginning chapter question correct reasonable time able quickly skim chapter question prove difficult need spend time

read chapter certain subsection chapter thoroughly practice review tracking leave time review practice question length test tempt practice push ahead cover new material quickly possible fail schedule ample time review actually throw

material quickly possible fail schedule ample time review actually throw away great opportunity improve performance brain rarely remember see carefully review question solve explanation process retrieve information reopen reinforce connection build brain build long-term retention repeatable skill set exactly need beat review note specific reason miss question get wrong guess spreadsheet like add miss sheet wimis complete practice periodically review wimis identify pattern consistently miss question certain content area fall testmaker trap mcat prep adjust study plan base available study time result review strength weakness likely change course prep address area important score shift focus area change help review make length test include miss sheet template sure check video resource online syllabus miss confused electron absorption need memorize equation read answer choice slow scope forget research answer study overlook aspect study environment learning actually occur study home student choice problem arise environment chief distraction studying mentally drain process time pass distraction tempting escape route considerable willpower reason stay focused hard need instead study home head library quiet coffee shop new location possible eliminate usual distraction promote efficient studying instead study home course entire day stay library hour effective studying enjoy rest day mcat matter study practice like test day possible require official test snack chew gum study block turn music television phone practice computer online resource simulate computer base test environment complete practice question work scratch paper noteboard sheet write directly print material will option test day memory tie sense test like studying environment easy test day recall information put work learn amino acid peptide pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry

chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read corresponding subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 neutral solution amino acid exist a. positively charge compound c. negatively charge compound d. hydrophobic molecule 2 ph 7 charge glutamic acid molecule 3 follow statement likely true nonpolar r group aqueous solution a. hydrophilic find bury protein b. hydrophilic find protein surface c. hydrophobic find bury protein d. hydrophobic find protein surface

4 scientist discover cdna sequence uncharacterized protein initial study use computer program design predict protein structure following level protein structure accurately predict a. primary structure b. secondary structure c. tertiary structure d. quaternary structure 5 distinct tripeptide form valine molecule alanine molecule leucine molecule 6 following well describe change entropy occur protein folding a. entropy water protein increase b. entropy water increase entropy protein c. entropy water decrease entropy protein d. entropy water protein decrease 7 α helix likely hold a. disulfide bond b. hydrophobic effect c. hydrogen bond d. ionic attraction chain 8 follow likely cause denaturation a. heat protein 100 ° c b. add 8 m urea c. move hypotonic environment d. add detergent sodium dodecyl sulfate 9 particular α helix know cross cell membrane amino acid likely find transmembrane portion helix 10 amino acid chiral carbon chain a. b. ii c. ii iii d. ii iii 11 follow translation folding receptor tyrosine kinase

exist monomer inactive state cell membrane binding ligand protein dimerize initiate signaling cascade process high element protein structure change a. secondary tertiary b. tertiary quaternary c. primary secondary d. secondary quaternary 12 amino acid chain ionize cell 13 lysine pka chain 10.5 assume pka carboxyl amino group 2 9 respectively pi lysine close 14 follow reason conjugate protein i. direct delivery particular organelle ii direct delivery cell membrane iii add cofactor need activity a. b. ii c. ii iii d. ii iii 15 collagen consist

helix carbon backbone tightly wrap triple helix amino acid likely find high concentration collagen amino acid peptide chapter 1.1 amino acid find protein note terminology stereochemistry amino acid structure amino acid hydrophobic hydrophilic amino acid amino acid abbreviation 1.2 acid base chemistry amino acid protonation deprotonation titration amino acid 1.3 peptide bond formation hydrolysis peptide bond formation peptide bond hydrolysis 1.4 primary secondary protein structure 1.5 tertiary quaternary protein structure folding solvation layer content chapter relevant 20 question biochemistry mcat chapter cover material following aamc content category 1a structure function protein constituent amino acid 5d structure function reactivity biologically relevant molecule important amino acid consider sickle cell disease people sickle cell disease red blood cell certain condition rigid sickle shaped sickle shaped cell stuck capillary block severe case block blood supply cause damage organ kidney liver spleen happen mutation hemoglobin protein red blood cell transport oxygen remarkably difference normal form hemoglobin hba cause sickle cell disease hbs seemingly minor take change single amino acid surface hemoglobin sixth amino acid chain change glutamic acid valine minor difference allow deoxygenate form hbs aggregate precipitate lead sickled shape symptom sickle cell chapter represent whopping 20 biochemistry question test day make amino acid high yield subject review book sure work sufficient study material study plan chapter look basic protein focus amino acid compose amino acid contribute physical chemical property protein 1.1 amino acid find protein chapter 1.1 able recognize common abbreviation amino acid glu y distinguish stereochemistrie typical cellular location reactivity 20

major amino acid identify major amino acid amino acid molecule contain functional group amino group nh2 carboxyl group cooh chapter focus specifically α amino acid amino group carboxyl group bond carbon α carbon carboxylic acid think α carbon central carbon amino acid show figure 1.1 figure 1.1 amino acid structure high yield

show figure 1.1 figure 1.1 amino acid structure high yield badge section indicate content frequently test remember carboxylic acid α carbon carbon adjacent carboxyl carbon structure nomenclature carboxylic acid discuss chapter 8 mcat organic chemistry review addition amino carboxyl group α carbon group attach hydrogen atom chain call r group specific amino acid chain determine property amino acid function chain r group amino acid determine chemical property note terminology amino acid need amino carboxyl group bond carbon example neurotransmitter γ- aminobutyric acid gaba amino group gamma γ carbon carbon away carboxyl group similarly amino acid find human body specify codon genetic code incorporate protein example ornithine intermediate urea cycle metabolic process body excrete excess nitrogen amino acid specifically modify specialized role body example lysine convert pyrrolysine mcat include passage gaba nonstandard amino acid background information expect know test day say association american medical colleges aamc specifically state focus 20 α amino acid encode human genetic code call proteinogenic amino acid rest chapter use term amino acid refer specifically stereochemistry amino acids amino acid α carbon chiral stereogenic center different group attach amino acid optically active exception glycine hydrogen atom r group make achiral show figure 1.2 figure 1.2 glycine chiral amino acid eukaryote l amino acid amino group draw left fischer projection demonstrate figure 1.3 cahn ingold prelog system translate s absolute configuration chiral amino acid exception cysteine l amino acid r absolute configuration ch2sh group priority cooh figure 1.3 l- d amino acids glycine amino acid chiral cysteine s absolute configuration l amino acid one find eukaryotic protein d amino acid exist example gramicidin antibiotic produce soil bacterium call bacillus brevis d- l amino acid alternate primary structure structure amino acid way classify amino acid

section break structure chain nonpolar nonaromatic chain seven amino acid show figure 1.4a fall

nonpolar nonaromatic chain seven amino acid show figure 1.4a fall class glycine discuss early single hydrogen atom chain achiral small amino acid amino acid alanine valine leucine isoleucine alkyl chain contain carbon figure 1.4a amino acid nonpolar nonaromatic chains methionine amino acid contain sulfur atom chain sulfur methyl group attach consider relatively nonpolar aamc practice material clear test taker expect know structure name letter letter abbreviation amino acid finally proline unique form cyclic amino acid amino acid amino group attach α carbon proline amino nitrogen chain form membered ring ring place notable constraint flexibility proline limit appear protein significant effect proline role secondary structure mcat writer strive avoid misuse terminology textbook problematically describe proline imino acid amino nitrogen form bond carbon mcat will use term imine specifically molecule carbon nitrogen double bond aromatic chain amino acid uncharged aromatic chain depict figure 1.4b large tryptophan double ring system contain nitrogen atom small phenylalanine benzyl chain benzene ring plus ch2 group add oh group phenylalanine give member tyrosine phenylalanine relatively nonpolar oh group make tyrosine figure 1.4b

amino acid aromatic chain polar chain amino acid show figure 1.4c chain polar aromatic serine threonine oh group chain make highly polar able participate hydrogen bonding asparagine glutamine amide chain unlike amino group common amino acid amide nitrogen gain lose proton change ph charged amino acid polar chain cysteine thiol sh group chain sulfur large oxygen sh bond long weak oh bond addition sulfur electronegative oxygen leave thiol group cysteine prone oxidation reaction study later chapter sure know carboxylic acid derivative test day discuss chapter 9 mcat organic chemistry review figure 1.4c amino acid polar chain negatively charge acidic chain 20 amino acid negative charge chain physiological ph 7.4 aspartic acid aspartate relate asparagine glutamic acid glutamate relate glutamine

unlike asparagine glutamine aspartate glutamate carboxylate coo group chain amide note aspartate simply deprotonated form aspartic acid glutamate deprotonated form glutamic acid amino acid depict figure 1.4d figure 1.4d amino acid negatively charge chain mcat likely anion name aspartate glutamate instead acid name aspartic acid glutamic acid acid cell exist deprotonated form apply molecule amino acid malate instead catalytic triad find chymotrypsin make use histidine chain ability gain proton histidine residue active site remove proton oh group serine residue chain facilitate nucleophilic attack serine residue carbonyl carbon atom substrate chymotrypsin role digestive enzyme discuss chapter 9 mcat biology review positively charge basic chain remain amino acid show figure 1.4e chain positively charge nitrogen atom lysine terminal primary amino group arginine nitrogen atom chain positive charge delocalize nitrogen atom final amino acid histidine aromatic ring nitrogen atom ring call imidazole wonder histidine acquire positive charge pka chain relatively close 7.4 6 physiologic ph nitrogen atom protonate acidic condition second nitrogen atom protonate give chain positive charge figure 1.4e amino acid positively charge chain hydrophobic hydrophilic amino acid classify amino acid chain hydrophobic

chain hydrophobic hydrophilic amino acid classify amino acid chain hydrophobic hydrophilic actually complex matter example tyrosine oh group aromatic ring win clear conclusion draw amino acid long alkyl chain alanine isoleucine leucine valine phenylalanine strongly hydrophobic likely find interior protein away water surface protein second amino acid charge chain positively charge histidine arginine lysine plus negatively charge glutamate aspartate hydrophilic amide asparagine glutamine remain amino acid lie middle particularly hydrophilic particularly hydrophobic surface protein tend rich amino acid charge chain strongly hydrophobic amino acid tend find interior protein amino acid abbreviation explore structure 20 proteinogenic amino acid worth mention expect able identify amino acid mcat letter letter abbreviation abbreviation list table 1.1 table 1.1 three- letter abbreviation amino acids letter abbreviation identify amino acid context letter abbreviation primarily space premium formula

long protein sequence labeling individual amino acid figure mutation shorthand type mutation notation substitution likely test day example e6v indicate sixth amino acid glutamic acid e change valine v bear repeat structure abbreviation three- letter test heavily natural science section mcat sure know page mcat concept check 1.1 assess understanding material question 1 group attach central α carbon proteinogenic amino 2 stereochemistry chiral amino acid appear eukaryotic l d r s exception 3 amino acid fit category note number parenthesis indicate number amino acid category nonpolar nonaromatic 7 negatively charge acidic 2 positively charged basic 3 4 hydrophobic amino acid tend reside protein 5 identify amino acid letter abbreviation solution concept check give chapter mcat biochemistry review find near end chapter concept check locate follow concept summary chapter 1.2 acid base chemistry amino acids chapter 1.2 able identify predominant ion form generic amino acid backbone give ph calculate pi value amino acid give pka value backbone predict general form titration curve amino acid expect know exact value isoelectric point

titration curve amino acid expect know exact value isoelectric point chain pka value mcat provide numerical datum use answer question test clear cut distinction additional information hydrophilic valine lysine hydrophobic valine alanine aamc love use amino acid test understanding acid base chemistry acidic carboxylic acid group basic amino group make amphoteric specie accept proton donate proton react depend ph environment key understand behavior amino acid remember fact ionizable group tend gain proton acidic condition lose basic condition general low ph ionizable group tend protonate high ph tend pka group ph average half molecule species deprotonate protonate version ionizable group = deprotonate version ionizable group ha = a ph pka majority specie protonate ph high pka majority specie deprotonate like polyprotic acid ionizable proton pka protonation deprotonation amino acid group deprotonate pka value pka1 pka carboxyl group usually 2 amino acid second pka value pka2 pka amino group usually 9 10 amino acid ionizable chain pka value come later example let glycine ionizable chain positively charge acidic condition ph 1 ph stomach plenty proton

solution far pka amino group amino group fully protonate nh+ 3 positively charge pka carboxylic acid group fully protonated cooh neutral acidic ph value amino acid tend positively charge show figure 1.5 figure 1.5 amino acid structure acidic ph zwitterion intermediate ph increase ph amino acid solution ph 1 ph 7.4 normal ph human blood move far

pka carboxylic acid group physiological ph find amino acid carboxylate group protonate cooh amino group unprotonated nh2 condition carboxyl group conjugate base form deprotonate coo. conversely pka basic amino group remain fully protonated conjugate acid form nh+ 3 molecule positive charge negative charge overall molecule electrically neutral molecule dipolar ion zwitterion german zwitter hybrid depict figure 1.6 charge neutralize zwitterion exist water figure 1.6 carboxylic acid deprotonate neutral ph form negatively charge basic condition milk magnesia antacid ph 10.5 ph carboxylate group deprotonate remain coo. hand pka amino group deprotonate nh2 highly basic ph glycine negatively charge depict figure 1.7 figure 1.7 amino group deprotonate basic ph form acidic ph value amino acid tend positively charge alkaline ph value amino acid tend negatively charge titration amino acid acid base property amino acid great candidate titration assume titration proton occur distinct step resemble simple monoprotic acid titration curve look like combination monoprotic acid titration curve curve chain charge figure 1.8 show titration curve glycine inspect curve look difference amino acid charge chain figure 1.8 titration curve

glycine ph solution approximately equal pka solute solution act buffer imagine acidic 1 m glycine solution low ph value glycine exist predominantly + nh3ch2cooh fully protonate positive charge solution titrate naoh carboxyl group deprotonate acidic amino group 0.5 equivalent base add solution concentration fully protonate glycine zwitterion + nh3ch2coo equal + nh3ch2cooh = + nh3ch2coo point ph equal pka1 remember ph close pka value solute solution act buffer titration curve relatively flat demonstrate blue box diagram add base carboxylate group go half deprotonate fully deprotonated amino acid stop act like buffer ph

start increase rapidly phase add 1.0 equivalent base glycine exist exclusively zwitterion form remember start 1.0 equivalent glycine mean molecule electrically neutral ph equal isoelectric point pi glycine true amino acid isoelectric point ph molecule electrically neutral neutral amino acid calculate average pka value amino carboxyl ph amino acid solution equal isoelectric point pi amino acid exist electrically neutral molecule pi calculate average near pka value amino acid non ionizable chain pi usually pineutral amino acid = + 3 group + pka cooh group glycine pi value 2.34 + 9.60 ÷ 2 = 5.97 remember molecule neutral especially sensitive ph change titration curve nearly vertical continue add base glycine pass second buffering phase amino group deprotonate ph remain relatively constant 1.5 equivalent base add concentration zwitterion form equal concentration fully deprotonate form + nh3ch2coo = nh2ch2coo ph equal pka2 titration curve nearly horizontal finally add 2.0 equivalent base amino acid fully deprotonated remain nh2ch2coo additional base increase ph amino acid charge chain amino acid charge chain glutamic acid lysine titration curve extra step work principle glutamic acid carboxyl group amino group charge fully protonate state +1 undergo deprotonation lose proton main carboxyl group glycine point electrically neutral lose second proton glycine overall charge 1 second proton remove case

second proton glycine overall charge 1 second proton remove case come chain carboxyl group amino group relatively acidic group pka 4.2 result pi glutamic acid low glycine 3.2 isoelectric point acidic amino acid calculate follow piacidic amino acid = + pka r group + pka cooh group lysine hand amino group carboxyl group charge fully protonated state +2 +1 lose carboxyl proton happen ph 2 bring charge +1 lysine electrically neutral lose proton main amino group happen ph 9 get negative charge lose proton amino group chain happen ph 10.5 isoelectric point lysine average pka value amino group chain pi 9.75 isoelectric point basic amino acid calculate follow amino acid acidic chain pi value 6 amino acid basic chain pi value 6 pibasic amino acid = + 3 group + pka r group home message amino acid acidic chain relatively low isoelectric point basic chain relatively high mcat concept check 1.2 assess understanding

material question 1 generic amino acid nh2crhcooh uncharged chain predominant form follow ph value ph = 1 ph = 7 ph = 11 2

give follow pka value value pi amino acid list aspartic acid pka1 = 1.88 pka2 = 3.65 pka3 = 9.60 pi = arginine pka1 = 2.17 pka2 = 9.04 pka3 = 12.48 pi = valine pka1 = 2.32 pka2 = 6.62 pi = 1.3 peptide bond formation hydrolysis chapter 1.3 able recognize relationship nomenclature length predict length compound call tripeptide apply hydrolytic mechanism trypsin chymotrypsin novel peptide predict product peptide bond formation cleavage reaction peptide compose amino acid subunit call residue show figure 1.9 dipeptide consist amino acid residue tripeptide term oligopeptide relatively small peptide 20 residue long chain call figure 1.9 peptide residue residue peptide join peptide bond specialized form amide bond form coo group amino acid nh+ 3 group amino acid form functional group c(o)nh. section look

key reaction involve form break peptide bond test day need know peptide bond form context ribosome cover chapter 7 mcat biochemistry review peptide bond formation peptide bond formation example condensation dehydration reaction result removal water molecule h2o view acyl substitution reaction occur carboxylic acid derivative peptide bond form show figure 1.10 electrophilic carbonyl carbon amino acid attack nucleophilic amino group second amino acid attack hydroxyl group carboxylic acid kick result formation peptide amide bond figure 1.10 peptide bond formation cleavage amide group delocalizable π electron carbonyl lone pair amino nitrogen exhibit resonance cn bond amide partial double bond character show figure 1.11 resonance peptide bond peptide draw order synthesize ribosome n- terminus c terminus translation cover chapter 7 mcat biochemistry result rotation protein backbone cn amide bond restrict make protein rigid rotation remain bond backbone restrict remain single σ bond peptide bond form free amino end know amino terminus n terminus free carboxyl end carboxy terminus c terminus convention peptide draw n- terminus left c terminus right similarly read n terminus c terminus need memorize specific amino acid hydrolytic enzyme

recognize exact mechanism reaction hand certainly encounter passage describe peptide bond hydrolysis enzyme carry function peptide need relatively stable solution normally fall apart hand order digest protein need break component amino acid organic chemistry amide hydrolyze acid base catalysis live organism hydrolysis catalyze hydrolytic enzyme trypsin chymotrypsin specific cleave specific point peptide chain trypsin cleave carboxyl end arginine lysine chymotrypsin cleave carboxyl end phenylalanine tryptophan tyrosine need know exact mechanism enzyme catalyze hydrolysis need understand main idea break apart amide bond add hydrogen atom amide nitrogen oh group carbonyl carbon reverse reaction show figure 1.10 mcat concept check 1.3 assess understanding material question 1 difference amino acid dipeptide tripeptide oligopeptide polypeptide 2 molecule release formation peptide bond 3 chymotrypsin cleave

polypeptide 2 molecule release formation peptide bond 3 chymotrypsin cleave carboxyl end phenylalanine tryptophan tyrosine oligopeptide form enzymatic cleavage follow molecule chymotrypsin val phe glu lys tyr phe trp ile met tyr gly ala 1.4 primary secondary protein structure chapter 1.4 able describe level protein structure recognize unique role proline secondary protein structure recall structural feature α helix β pleated sheet protein polypeptide range amino acid length thousand serve function biological system function enzyme hormone membrane pore receptor element cell structure protein main actor cell genetic code simply recipe make thousand protein protein level structure primary 1 ° secondary 2 ° tertiary 3 ° quaternary 4 ° section examine discuss tertiary quaternary structure section mcat expect memorize exact primary sequence protein primary structure protein linear arrangement amino acid code organism dna sequence amino acid list n terminus amino end c terminus carboxyl end example amino acid β chain hemoglobin normally valine histidine leucine threonine proline glutamate glutamate lysine serine alanine primary structure stabilize formation covalent peptide bond adjacent amino acid primary structure protein order amino acid main secondary structure α helix β pleated sheet result hydrogen bonding primary

structure encode information need folding high structural level secondary tertiary quaternary structure protein adopt energetically favorable arrangement primary structure give environment primary structure protein determine laboratory technique call sequencing easily dna code protein protein protein secondary structure local structure neighbor amino acid secondary structure primarily result hydrogen bonding nearby amino acid common secondary structure α helix β pleated sheet key stability structure formation intramolecular hydrogen bond α helix show figure 1.12 rodlike structure peptide chain coil clockwise central axis helix stabilize intramolecular hydrogen bond carbonyl oxygen atom amide hydrogen atom residue chain chain amino acid α helical conformation point away helix

chain chain amino acid α helical conformation point away helix core α helix important component structure keratin fibrous structural protein find human skin hair fingernail figure 1.12 hydrogen bonding spatial configuration α helix β pleated sheet parallel antiparallel peptide chain lie alongside form row strand hold intramolecular hydrogen bond carbonyl oxygen atom chain amide hydrogen atom adjacent chain show figure 1.13

accommodate hydrogen bond possible β pleated sheet assume pleated rippled shape r group amino residue point plane β pleated sheet fibroin primary protein component silk fiber compose β pleated sheet figure 1.13 hydrogen bonding spatial configuration β pleated sheet secondary structure proline rigid cyclic structure proline introduce kink peptide chain find middle α helix proline residue rarely find α helix helix cross cell membrane similarly rarely find middle pleated sheet hand proline find turn chain β- pleated sheet find residue start α helix mcat concept check 1.4 assess understanding material question 1 definition primary secondary structure differ subtype bond stabilize primary structure 1 ° secondary structure 2 ° 2 role proline serve secondary structure 3 describe key structural feature follow secondary structure 1.5 tertiary quaternary protein chapter 1.5 able identify major structural component tertiary quaternary protein structure recognize relationship protein folding solvation layer

recall nomenclature protein prosthetic group nucleoprotein protein broadly divide fibrous protein collagen structure resemble sheet long strand globular protein myoglobin tend spherical like globe cause tertiary quaternary protein structure result protein folding tertiary structure protein primarily result move hydrophobic amino acid chain interior protein protein tertiary structure dimensional shape tertiary structure determine hydrophilic hydrophobic interaction r group amino acid hydrophobic residue prefer interior protein reduce proximity water hydrophilic nh c = o bond find polypeptide chain pull hydrophobic residue hydrophilic bond form electrostatic interaction hydrogen bond stabilize protein inside result hydrophobic interaction amino acid surface protein hydrophilic polar charged r group highly hydrophobic r group phenylalanine find surface protein dimensional structure determine hydrogen bonding acid base interaction amino acid charge r group create salt bridge particularly important component tertiary structure presence disulfide bond bond form cysteine molecule oxidize form cystine show figure 1.14 disulfide bond create loop protein chain addition disulfide bond determine wavy curly human hair

protein chain addition disulfide bond determine wavy curly human hair disulfide bond curly note form disulfide bond require loss proton electron oxidation figure 1.14 disulfide bond formation exact detail protein folding scope mcat basic idea secondary structure probably form hydrophobic interaction hydrogen bond cause protein collapse proper dimensional structure way adopt intermediate state know molten globule protein folding extremely rapid process start finish typically take protein lose tertiary structure process commonly call denaturation lose function sure understand basic thermodynamic property enthalpy entropy gibbs free energy discuss chapter 7 mcat general chemistry review test day test natural science section folding solvation layer hydrophobic residue tend occupy interior protein hydrophilic residue tend accumulate exterior portion answer sum word entropy solute dissolve solvent nearby solvent molecule form solvation layer solute enthalpy standpoint hydrocarbon stable aqueous solution organic one $\delta h < 0$

hydrophobic chain phenylalanine leucine place aqueous solution water molecule solvation layer form hydrogen bond chain force nearby water molecule rearrange specific arrangement maximize hydrogen bonding mean negative change entropy δs remember negative change entropy represent increase order decrease disorder unfavorable entropy change make overall process nonspontaneous δg > 0 hand put hydrophilic residue serine lysine exterior protein allow nearby water molecule latitude positioning increase entropy δs > 0 make overall solvation process spontaneous move hydrophobic residue away water molecule hydrophilic residue water molecule protein achieve maximum stability primary structure protein act like letter secondary structure act like word certain ordering letter sense cat word caq tertiary structure act like sentence word combine form function quaternary structure act like paragraph present subunit combine cohesive protein element primary secondary tertiary structure protein quaternary structure quaternary structure exist protein contain polypeptide chain protein quaternary structure aggregate small globular peptide subunit represent functional form protein classic example quaternary structure hemoglobin immunoglobulin show figure 1.15a 1.15b hemoglobin consist distinct subunit bind molecule oxygen similarly immunoglobulin g igg antibody contain total subunit figure 1.15a hemoglobin heme molecule visible chain figure 1.15b immunoglobulin g reduction genetic material crucial virus genome virus tiny viral coat typically consist small protein repeat dozen hundred time viral structure discuss chapter 1 mcat biology review formation quaternary structure serve role stable reduce surface area protein complex second reduce dna need encode protein complex bring catalytic site close allow intermediate reaction directly shuttle second reaction finally important induce cooperativity allosteric effect discuss chapter especially hemoglobin basic idea subunit undergo conformational structural change enhance reduce activity subunit conjugated protein derive function covalently attach molecule call prosthetic group prosthetic group organic molecule vitamin metal ion iron protein lipid carbohydrate nucleic acid prosthetic group refer lipoprotein glycoprotein nucleoprotein respectively prosthetic group major role

determine function respective

glycoprotein nucleoprotein respectively prosthetic group major role determine function respective protein example hemoglobin subunit myoglobin contain prosthetic group call heme heme group contain iron atom core bind carry oxygen hemoglobin inactive heme group group direct protein deliver certain location cell membrane nucleus lysosome endoplasmic reticulum biochemistry guide example expert ricin highly toxic ribosome inactivate protein rip obtain easily widely available castor bean ricinus communis make potential bioterrorist biowarfare agent know antidote toxoid recombinant vaccine show effective raise protective immunity prevent lethal effect ricin background info ricin vaccine currently variant ricin bind ribosome exist promising result human immunogen phase 1 clinical trial vaccine suffer instability aggregation cause effect like vascular leak syndrome vls base previous x ray crystal structure rta1 33/44- 198 inactive variant introduction disulfide bond stabilize disordered loop unclear mutation introduce disulfide bond improve overall protein stability mutant protein interact vls receptor animal issue current bond help stability series rta1 33/44 198 mutant create purify number free cysteine assay ellman reagent react free sulfhydryl group yield colored product melting temperature apparent tm purify protein determine circular dichroism measurement finally construct assay ability induce vls animal model result detail table 1 cysteine assay ability induce free cys tm similar adapt janosi l. compton j. r. legler p. m. steele

k. e. davis j. m. matyas g. r. millard c. b. 2013 disruption putative vascular leak peptide sequence stabilize ricin vaccine candidate rta1 33/44 198 toxins 5(2 224 48 r48c t77c v76i suitable candidate testing question ask interpret study result want start purpose study able datum efficiently goal develop vaccine ricin poisoning

second paragraph start creation possible work vaccine base ricin protein use background knowledge critical reasoning assume vaccine similar ricin protein elicit proper immune

response inhibit ribosome function notice keyword second paragraph indicate problem case current vaccine stable presumably affect efficacy vaccine effect vls researcher want eliminate give hint possible solution stability issue create disulfide bond mean disulfide native protein create mutate select amino acid cysteine follow possible solution paragraph 2 researcher generate series protein mutation outline column table 1 notice notation letter number letter know passage mutant look code infer letter original amino acid number position sequence second letter mutate amino acid style notation common scientific paper likely want mind test day possibility similar notation instance r48c arginine position 48 mutate cysteine notice mutation pair amino acid mutate cysteine create opportunity disulfide bond second column tell success create disulfide bond wild type protein free cysteine mutant introduce cysteine purpose create disulfide bond successful disulfide bond formation eliminate sulfhydryl leave original free cysteine r48c t77c v76i approximately 1.89 ± 0.03 free cysteine suggest incomplete formation disulfide bond column determine effect disulfide bond formation stability melt temperature tm great indication stability high temperature energy take break bond unfold protein wild type r48c t77c v76i markedly low tm compare construct conclude mean reduce stability finally column provide information construct induce vls r48c t77c v76i induce vls make safe perspective risk dangerous syndrome give datum passage r48c t77c v76i address issue induce vls animal model construct stable suitable additional testing mcat concept check 1.5 assess understanding material question 1 definition tertiary quaternary structure differ subtype bond stabilize tertiary structure 3 ° quaternary structure 4 ° 2 primary motivation hydrophobic residue polypeptide interior protein 3 list different prosthetic group attach protein chapter 1.6 able predict impact denaturation heat solute heat denature protein reason raise reaction

impact denaturation heat solute heat denature protein reason raise reaction temperature increase rate increase average kinetic energy molecule mean increase molecular motion relationship temperature kinetic energy discuss chapter 7 mcat general chemistry review

previous section discuss protein folding reverse process denaturation protein lose dimensional structure reversible denaturation irreversible denaturation reversible unfold protein catalyze reaction main cause denaturation heat molecule temperature protein increase average kinetic energy increase temperature get high extra energy overcome hydrophobic interaction hold protein cause protein unfold happen egg white cook uncooked egg white albumin fold make transparent cook cause albumin molecule denature aggregate form solid rubbery white mass revert transparent form hand solute urea denature protein directly interfere force hold protein disrupt tertiary quaternary structure break disulfide bridge reduce cystine cysteine residue overcome hydrogen bond chain interaction hold α helix β pleated sheet intact similarly detergent sds sodium dodecyl sulfate call sodium lauryl sulfate solubilize protein disrupt noncovalent bond promote denaturation denatured protein lose dimensional structure inactive mcat concept check 1.6 assess understanding material question 1 protein denature heat solute respectively nearly cell involve protein way nucleus mitochondria cell membrane mcat test understanding key concept amino acid amino acid compose protein determine structure chapter discuss well know function protein role enzyme review content test knowledge critical thinking skill complete test like passage set online resource amino acid find proteins amino acid group attach central α carbon amino group carboxylic acid group hydrogen atom r r group determine chemistry function amino acid amino acid appear protein eukaryotic organism stereochemistry α carbon l chiral amino acid d amino acid exist prokaryote chiral amino acid cysteine s configuration amino acid chiral glycine hydrogen atom r group chain polar nonpolar aromatic nonaromatic charged uncharged nonpolar nonaromatic glycine alanine valine leucine isoleucine methionine proline aromatic tryptophan phenylalanine tyrosine polar serine threonine asparagine

methionine proline aromatic tryptophan phenylalanine tyrosine polar serine threonine asparagine glutamine cysteine negatively charge acidic aspartate glutamate positively charge basic lysine arginine histidine amino acid long alkyl chain hydrophobic charge hydrophilic fall

acid base chemistry amino acids amino acid amphoteric accept donate pka group ph half specie deprotonate ha = a amino acid exist different form different ph value low acidic ph amino acid fully protonated ph near pi amino acid amino acid neutral high alkaline ph amino acid fully deprotonate isoelectric point pi amino acid charge chain calculate average pka value amino acid titrate titration curve nearly flat pka value amino acid titration curve nearly vertical pi amino acid amino acid charge chain additional pka value pi calculate average pka value correspond protonation deprotonation zwitterion amino acid charge chain pi 6 acidic amino acid pi 6 basic amino acid pi 6 peptide bond formation hydrolysis dipeptide amino acid residue tripeptide oligopeptide amino acid residue < 20 polypeptide > 20 form peptide bond condensation dehydration reaction release molecule water nucleophilic amino group amino acid attack electrophilic carbonyl group amino acid amide bond rigid resonance break peptide bond hydrolysis reaction

primary secondary protein structure primary structure linear sequence amino acid peptide stabilize peptide bond secondary structure local structure neighbor amino acid stabilize hydrogen bonding amino group nonadjacent carboxyl group α helix clockwise coil central axis β pleated sheet rippled strand parallel proline interrupt secondary structure rigid cyclic tertiary quaternary protein structure tertiary structure dimensional shape single polypeptide chain stabilize hydrophobic interaction acid base interaction salt bridge hydrogen bonding disulfide hydrophobic interaction push hydrophobic r group interior protein increase entropy surround water molecule create negative gibbs free energy disulfide bond occur cysteine molecule oxidize create covalent bond form cystine quaternary structure interaction peptide protein contain multiple subunit protein covalently attach molecule term conjugate protein attach molecule prosthetic group metal ion vitamin lipid carbohydrate nucleic acid heat increase solute concentration lead loss dimensional protein structure term denaturation answer concept check 1 group amino group nh2 carboxylic acid group cooh hydrogen atom r group 2 chiral eukaryotic amino acid l. chiral eukaryotic amino acid s exception cysteine

cysteine amino acid r group high priority carboxylic acid accord cahn ingold prelog rule 3 nonpolar nonaromatic glycine alanine valine leucine isoleucine aromatic tryptophan phenylalanine tyrosine polar serine threonine asparagine glutamine cysteine negatively charge acidic aspartate glutamate positively charge basic lysine arginine histidine 4 hydrophobic amino acid tend reside interior protein away water hydrophilic amino acid tend remain surface protein contact water 5 left right amino acid methionine m cysteine c alanine threonine t mcat 1 ph = 1:+nh3crhcooh ph = 7:+nh3crhcoo ph = 11 2

aspartic acid pi = 1.88 + 3.65 ÷ 2 = 2.77 arginine pi = 9.04 + 12.48 ÷ 2 = 10.76 valine pi = 2.32 + 9.62 ÷ 2 = 5.97 1 specie differ number amino acid amino acid = 1 dipeptide = 2 tripeptide = 3 oligopeptide = < 20 polypeptide = > 20 2

water h2o 3 4 val phe glu lys tyr ile met tyr glyala single amino acid consider oligopeptide linear sequence amino acid local structure determine nearby amino acid 2 proline rigid structure cause introduce kink α helix create turn β pleated sheet 3 α helix rod like structure peptide chain coil clockwise central axis β pleated sheet peptide chain lie alongside form row strand hold intramolecular hydrogen bond carbonyl oxygen atom chain amide hydrogen atom adjacent chain dimensional shape protein interaction separate subunit multisubunit protein 2 move hydrophobic residue interior protein increase entropy allow water molecule surface protein possible position configuration positive δs make δg < 0 stabilize protein 3 example common prosthetic group include lipid carbohydrate nucleic acid know lipoprotein glycoprotein 1 heat denature protein increase average kinetic energy disrupt hydrophobic interaction solute denature protein disrupt element secondary tertiary quaternary structure science mastery assessment amino acid acidic basic amino acid site protonation carboxylic acid amine neutral ph carboxylic acid deprotonate coo amine remain 3 dipolar ion zwitterion b correct glutamic acid acidic amino acid extra carboxyl group neutral ph carboxyl group deprotonate negatively charge amino group positive charge remain

protonated ph 7 overall glutamic acid net charge 1 b correct notice need know pi value solve question acidic amino acid glutamic acid pi nonpolar group capable form dipole hydrogen bond make hydrophobic bury hydrophobic r group inside protein mean interact water polar make c correct b incorrect nonpolar molecule hydrophobic hydrophilic d incorrect generally find protein surface cdna sequence dna copy mrna generate protein computer program quickly identify amino acid correspond codon generate list amino acid amino acid sequence primary structure protein observation support correct answer contrast secondary tertiary quaternary structure involve high level interaction backbone r group increasingly difficult predict choice amino acid

interaction backbone r group increasingly difficult predict choice amino acid leave choice second choice multiply number give total 3 × 2 × 1 = 6 distinct tripeptide letter code valine v alanine leucine l tripeptide val vla alv avl lva lav protein fold take organized structure entropy decrease opposite trend true water surround protein prior protein folding hydrophobic amino acid residue expose water molecule form structured hydration shell hydrophobic residue folding hydrophobic residue generally bury interior protein surround water molecule gain latitude interaction entropy surround water increase make correct answer α helix hold primarily hydrogen bond carboxyl group amino group amino acid disulfide bridge hydrophobic effect b primarily involve tertiary structure secondary charge chain amino acid far apart participate strong interaction secondary structure high salt concentration detergent denature protein high temperature move protein hypotonic environment low solute concentration lead denaturation amino acid likely find transmembrane portion α helix expose hydrophobic environment need amino acid hydrophobic chain choice hydrophobic chain c phenylalanine choice polar charged amino acid glycine chiral α carbon 20 amino acid threonine isoleucine chiral carbon chain correct answer c configuration normally see α carbon configuration see chain chiral carbon inactive state receptor tyrosine kinase fully fold single polypeptide chain tertiary structure monomer dimerize protein complex element quaternary

structure change tertiary quaternary structure histidine ionizable chain imidazole ring nitrogen atom protonate remain answer ionizable atom chain lysine basic chain ignore pka carboxyl group average pka chain amino group average 9 10.5 9.75 close d conjugate protein lipid carbohydrate tag add tag indicate protein direct cell membrane especially lipid tag specific organelle lysosome provide activity protein example heme group hemoglobin need bind oxygen d collagen triple helix carbon backbone close steric hindrance potential problem reduce hindrance need small chain glycine small chain hydrogen atom consult online resource additional practice equation

small chain hydrogen atom consult online resource additional practice equation remember 1.1 isoelectric point neutral amino acid pineutral amino acid = 3 group + pka cooh group 1.2 isoelectric point acidic amino acid piacidic amino acid = pka r group + pka cooh group 1.3 isoelectric point basic amino acid pibasic amino acid = 3 group + pka r group biochemistry chapter 2 biochemistry chapter 3 nonenzymatic protein function protein analysis biochemistry chapter 7 rna genetic code biology chapter 1 biology chapter 9 digestive system general chemistry chapter 7 organic chemistry chapter 8 organic chemistry chapter 9 carboxylic acid derivative pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review

concept summary end chapter 1 consider biochemical reaction b catalyze b dehydrogenase following statement true a. reaction proceed enzyme concentration b. reaction favorable 0 ° c c. component enzyme transfer b. d. free energy change

δg catalyze reaction uncatalyzed reaction 2 follow statement enzyme kinetics a. increase substrate concentration constant enzyme concentration lead proportional increase rate reaction b. enzyme operate human body work well temperature 37 ° c c. enzyme substrate complex form product dissociate enzyme substrate d. maximal activity human enzyme occur ph 3 enzyme require presence nonprotein molecule behave catalytically enzyme devoid molecule call 4 following factor determine enzyme specificity a. dimensional shape active site b. michaelis constant c. type cofactor require enzyme active d. prosthetic group enzyme 5 human dna polymerase remove freezer place 60 ° c water bath following well describe change enzyme activity polymerase sample come thermal equilibrium water bath a. increase decrease b. decrease plateaus c. increase plateau d. decrease increase 6 equation substrate c allosteric inhibitor enzyme 1 follow mechanism necessarily cause substrate c a. competitive inhibition b. irreversible inhibition c. feedback enhancement d. negative feedback 7 activity enzyme measure different substrate concentration datum show table v mmol v mmol km enzyme approximately question 8 9 refer following statement consider reaction catalyze enzyme km value 5 × 106 m vmax 20 mmol 8 concentration 5 × 106 m substrate rate reaction a. 10 mmol b. 20 mmol c. 30 mmol d. 40 mmol 9 concentration 5 × 104 m substrate rate reaction a. 10 mmol b. 15 mmol c. 20 mmol d.

30 mmol 10 graph show kinetic datum obtain flu virus enzyme activity function substrate concentration presence absence antiviral drug base graph follow statement correct a. drug noncompetitive inhibitor viral enzyme b. oseltamivir increase km value substrate compare c. zanamivir increase vmax value substrate compare d. drug competitive inhibitor viral enzyme 11 conversion atp cyclic amp inorganic phosphate likely catalyze class enzyme 12 follow

method enzyme decrease activation energy biological reaction a. modify local charge environment b. form transient covalent bond c. act electron donor receptor d. break bond enzyme irreversibly provide energy 13 certain enzyme display positive cooperativity subunit bind substrate following statement true a. affinity enzyme substrate increase b. affinity enzyme substrate c. affinity enzyme substrate half site substrate bind d. affinity enzyme substrate great substrate bind 14 following likely require series metabolic reaction a. triacylglycerol act coenzyme b. oxidoreductase enzyme c. magnesium act cofactor d. transferase enzyme 15

ideal temperature reaction change enzyme catalyst a. ideal temperature generally high catalyst b. ideal temperature generally low catalyst c. ideal temperature characteristic reaction d. conclusion know enzyme type chapter 2.1 enzyme biological catalyst impact activation energy 2.2 mechanism enzyme activity cofactor coenzyme 2.3 enzyme kinetic kinetic monomeric enzyme 2.4 effect local condition enzyme activity 2.5 regulation enzyme activity content chapter relevant 14 question biochemistry mcat chapter cover material following aamc content category 1a structure function protein constituent amino acid 5e principle chemical thermodynamic kinetic obesity increasingly common united states parallel increase high blood pressure hypertension extremely relevant medical student hypertension increase risk stroke heart failure kidney failure year physician encourage million americans improve diet add exercise daily regimen prescription drug control hypertension anti hypertensive medication call ace angiotensin convert enzyme inhibitor healthy patient ace catalyze reaction convert peptide call angiotensin angiotensin ii angiotensin ii peptide directly cause constriction blood vessel raise blood pressure stimulate release hormone aldosterone activate kidney reabsorb water bloodstream increase blood volume increase

blood pressure physician advantage complicated pathway straightforward solution stop pathway early inhibit ace blood pressure decrease enzyme crucial protein dramatically

increase rate biological reaction regulate homeostatic mechanism organ system highly regulate environmental condition activator inhibitor regulator naturally occur give drug ace inhibitor treat hypertension enzyme keep inactivated form call zymogen activate need chapter learn enzyme work different condition influence activity enzyme regulate help tie concept organ system metabolic process learn 2.1 enzyme biological catalyst chapter 2.1 able explain major feature enzyme function include specificity catalysis describe class enzyme oxidoreductase transferase hydrolase lyase isomerase ligase recognize enzyme affect thermodynamic kinetic reaction enzyme incredibly important biological catalyst catalyst impact thermodynamic biological reaction δhrxn equilibrium position change instead help reaction proceed fast rate catalyst enzyme change course reaction enzyme increase reaction rate process factor 100 1000 1,000,000,000,000 1012 time compare uncatalyzed reaction increase alive table 2.1

summarize key point remember enzyme table 2.1 key feature enzymes lower activation energy increase rate reaction alter equilibrium constant change consume reaction mean appear reactant product ph- temperature sensitive optimal activity specific ph range affect overall δg reaction specific particular reaction class reaction enzyme picky molecule enzyme act call substrate give enzyme catalyze single reaction class reaction substrate property know enzyme specificity example urease catalyze breakdown urea chymotrypsin hand cleave peptide bond amino acid phenylalanine tryptophan tyrosine variety polypeptide amino acid identical contain aromatic ring make chymotrypsin specific class molecule enzyme classify category base function mechanism review type enzyme example likely test day encounter unfamiliar enzyme mcat mind enzyme descriptive name end suffix ase lactase example break lactose convention name reductant oxidant oxidoreductase convention name reduce agent oxidize agent general organic chemistry good time brush oxidation reduction reaction see they're cover chapter 11 mcat general chemistry review chapter 4 mcat organic chemistry review oxidoreductase catalyze oxidation reduction reaction transfer electron biological

molecule cofactor act electron carrier nad+ nadp+ reaction catalyze oxidoreductase electron donor know reductant electron acceptor know oxidant enzyme dehydrogenase reductase name usually oxidoreductase enzyme oxygen final electron acceptor include oxidase name transferase catalyze movement functional group molecule example protein metabolism aminotransferase convert aspartate α ketoglutarate pair glutamate oxaloacetate move amino group aspartate α- ketoglutarate transferase straightforwardly name remember kinase member class kinase catalyze transfer phosphate group generally atp molecule hydrolase catalyze breaking compound molecule addition water common usage hydrolase name substrate example common hydrolase encounter mcat phosphatase cleave phosphate group molecule hydrolase include peptidase nuclease lipase break protein nucleic acid lipid lyase catalyze cleavage single molecule product require water substrate act oxidoreductase enzyme catalyze reverse specific reaction synthesis molecule single molecule catalyze lyase fulfil function common refer major enzyme classification li'l hot isomerase catalyze rearrangement bond molecule isomerase

enzyme classification li'l hot isomerase catalyze rearrangement bond molecule isomerase classify oxidoreductase transferase lyase depend mechanism enzyme mind isomerase catalyze reaction stereoisomer constitutional isomer ligase catalyze addition synthesis reaction generally large similar molecule require atp synthesis reaction small molecule generally accomplish lyase ligase likely encounter nucleic acid synthesis repair test day gibbs free energy endergonic exergonic reaction cover chapter 7 mcat general chemistry review impact activation energy recall thermodynamics relate relative energy state reaction term product reactant endergonic reaction require energy input δg > 0

exergonic reaction energy give δg < 0

remember endo mean exo mean endergonic reaction energy proceed exergonic reaction

release energy proceed look reaction diagram figure 2.1 demonstrate clearly figure 2.1 exergonic reaction diagram activation energy require catalyze reaction low uncatalyzed reaction δg δh remain reaction show figure 2.1 spontaneous note δg reaction negative important characteristic enzyme alter overall free energy change reaction change equilibrium reaction affect rate kinetic reaction occur affect quickly reaction get equilibrium actual equilibrium state example reaction year approach equilibrium enzyme comparison enzyme equilibrium attain second enzyme ensure important reaction occur reasonable time biological system recall enzyme catalyst unchanged reaction functional consequence far few copy enzyme require relative overall substrate enzyme act molecule substrate time catalyst exert effect lower activation energy reaction word easy substrate reach transition state imagine have walk tall hill way climb hill walk easy hill cut climb high exactly catalyst chemical reaction easy substrate achieve transition state reaction catalyze enzyme technically reversible reversal extremely energetically unfavorable essentially mcat concept check 2.1 assess understanding material question 1 enzyme function biological catalyst 2 enzyme specificity 3 name main function different class enzyme 4 way enzyme affect thermodynamic vs. kinetic reaction 2.2 mechanism enzyme activity chapter 2.2 able differentiate coenzyme cofactor compare induce fit lock key model enzyme function enzyme mechanism vary depend reaction catalyze tend share common feature enzyme act provide favorable microenvironment term charge ph stabilize transition state bring reactive group near active site formation enzyme substrate complex active site enzyme key catalytic activity enzyme reduce activation energy reaction describe interaction substrate active site enzyme account selectivity regulatory mechanism enzyme molecule enzyme act know substrate physical interaction refer enzyme substrate complex active site location enzyme substrate hold chemical reaction show figure 2.2 figure 2.2 reaction catalysis active site enzyme transferase catalyze formation bond substrate molecule active site assume define spatial arrangement

formation bond substrate molecule active site assume define spatial arrangement enzyme

substrate complex dictate specificity enzyme molecule group molecule hydrogen bonding ionic interaction transient covalent bond active site stabilize spatial arrangement contribute efficiency enzyme compete theory explain enzyme substrate interact well support lock key theory lock key theory aptly name suggest enzyme active site lock appropriate conformation substrate key bind show figure 2.3 substrate easily fit active site like key lock hand glove alteration tertiary quaternary structure necessary binding substrate figure 2.3 lock key theory vs. induce fit model enzyme catalysis induce fit model scientifically accept theory induce fit model likely reference test day imagine enzyme foam stress ball substrate frustrated mcat student hand desire interaction student want release stress relax student hand squeeze ball change conformation ball long spherical hand long flat adjust fit case substrate student induce change shape enzyme stress ball interaction require energy reaction endergonic student let stress ball desire product relaxed confident test taker let stress ball pretty easy require extra energy reaction exergonic like enzyme foam stress ball return original shape crusher substrate let molecular level demonstrate figure 2.3 induce fit model start substrate enzyme active site fit substrate present ready interact active site molecule find induce form transition state comfortable shape active site truly complementary substrate begin bind enzyme similarly substrate wrong type cause appropriate conformational shift enzyme active site adequately expose transition state prefer reaction occur deficiency vitamin cofactor result devastating disease thiamine essential cofactor enzyme involve cellular metabolism nerve conduction thiamine deficiency result excess alcohol consumption poor diet result disease include wernicke korsakoff syndrome disorder patient suffer variety neurologic deficit include delirium balance problem severe case inability form new memory cofactor coenzyme enzyme require nonprotein molecule call cofactor coenzyme effective cofactor coenzyme tend small size bind active site enzyme participate catalysis

coenzyme tend small size bind active site enzyme participate catalysis reaction usually carry charge ionization

protonation deprotonation cofactor coenzyme usually keep low concentration cell recruit need enzyme cofactor call apoenzyme contain holoenzyme cofactor attach variety way range weak noncovalent interaction strong covalent one tightly bind cofactor coenzyme necessary enzyme function know cofactor coenzyme topic likely test day important know cofactor generally inorganic molecule metal ion ingest dietary mineral coenzyme small organic group vast majority vitamin derivative vitamin nad+ fad coenzyme a. water soluble vitamin include b complex vitamin ascorbic acid vitamin c important coenzyme replenish regularly easily excrete fat soluble vitamin d e k well regulate partition coefficient quantify ability molecule dissolve polar vs. nonpolar environment enzymatic reaction restrict single cofactor coenzyme example metabolic reaction require magnesium nad+ derive vitamin b3 biotin vitamin b7 simultaneously vitamin come major class fat- water soluble important consider digestive disease different part gastrointestinal tract affect different disease process different part gastrointestinal tract specialize absorption different type biomolecule loss different part gastrointestinal tract accessory organ result different vitamin deficiency digestive system

discuss chapter 9 mcat biology review mcat unlikely expect memorization b vitamin familiarity name biochemistry passage easy test b5 pantothenic acid b6 pyridoxal phosphate b9 folic acid mcat concept check 2.2 assess understanding material question 1 lock key theory induce fit model differ lock key 2 cofactor coenzyme differ 2.3 enzyme kinetic chapter 2.3 able predict change enzyme solute concentration affect enzyme kinetic define enzyme cooperativity compare lineweaver burk michaelis menten plot explain key point lineweaver burk michaelis menten plot kinetics monomeric enzymes enzyme kinetic high yield topic score point test day relief student derive squeeze stress ball depend number factor size shape ball student baseline level stress enzyme kinetic dependent factor like environmental condition concentration substrate enzyme concentration substrate s enzyme e greatly affect quickly reaction occur let 100 stress ball enzyme 10 frustrated student substrate derive stress relief

represent high enzyme concentration relative substrate active site available quickly form product student letting feel relaxed chemical sense reach equilibrium quickly slowly add substrate student rate reaction increase people relax time plenty available stress ball squeeze add people start approach 100 student begin level reach maximal rate relaxation few few available stress ball finally active site occupy unlike invite student room change rate reaction fast reach saturation rate enzyme work maximum velocity denote vmax way increase vmax increase enzyme concentration cell accomplish induce expression gene encode enzyme concept represent graphically figure 2.4 figure 2.4 michaelis menten plot enzyme kinetics substrate increase enzyme able increase rate reaction reach maximum enzymatic reaction rate vmax vmax reach add substrate increase rate reaction enzyme michaelis menten equation describe rate reaction v depend concentration enzyme e substrate s form product p enzyme substrate complex form rate k1 es complex dissociate rate k1 turn e + p rate kcat e + s e + p note

p rate kcat e + s e + p note case enzyme available test day concentration enzyme keep constant condition relate velocity enzyme substrate concentration km + s important test day relevant math derive equation reaction rate equal half vmax km = s assess enzyme affinity substrate note km low km reflect high affinity substrate low s require 50 enzyme saturation conversely high km reflect low affinity enzyme substrate km understand substrate concentration half enzyme active site half stress ball use km michaelis constant compare enzyme certain condition km measure affinity enzyme substrate compare enzyme high km low affinity substrate require high substrate concentration half saturated km value intrinsic property enzyme substrate system alter change concentration substrate enzyme give concentration enzyme michaelis menten relationship generally graph hyperbola see michaelis menten plot figure 2.4 substrate concentration km change substrate concentration greatly affect reaction rate high substrate concentration exceed km reaction rate increase slowly approach vmax independent substrate variable vmax represent maximum enzyme velocity

measure mole enzyme second vmax mathematically relate kcat unit s1 vmax km + s])= 2 vmax[s km + s]= 2[s vmax = e]kcat qualitatively speak kcat measure number substrate molecule turn convert product enzyme molecule second enzyme kcat value 101 103 michaelis menten equation restate kcat v = kcat[e][s km + s low substrate concentration km > > s

derive equation simplify v = kcat ratio kcat km refer catalytic efficiency enzyme large kcat high turnover small km high substrate affinity result high catalytic efficiency indicate efficient enzyme lineweaver burk plot double reciprocal graph michaelis menten equation datum graph way yield straight line show figure 2.5 actual datum represent portion graph right y axis line extrapolate upper left quadrant determine intercept x axis intercept line x axis give value 1 intercept line y- axis give value lineweaver burk plot especially useful determine type inhibition enzyme experience vmax km compare estimation figure 2.5 experimentally determine lineweaver burk double reciprocal plot calculate value km vmax cooperative binding hemoglobin act transport protein enzyme result characteristic sigmoidal binding curve mcat favorite certain enzyme normal hyperbola graph michaelis menten plot v vs. s sigmoidal s shaped kinetic owe cooperativity substrate bind site show figure 2.6 cooperative enzyme multiple subunit multiple active site subunit enzyme exist state low affinity tense state t high affinity relaxed state r binding substrate encourage transition subunit t state r state increase likelihood substrate bind subunit conversely loss substrate encourage transition r state t state promote dissociation substrate remain subunit think cooperative enzyme kinetic like party people start arrive atmosphere relaxed party appealing people start go home party die people encourage leave tense host clean enzyme show cooperative kinetic regulatory enzyme pathway like phosphofructokinase-1 glycolysis cooperative enzyme subject activation inhibition competitively figure 2.6 cooperative enzyme kinetics cooperativity quantify numerical value call hill coefficient value hill coefficient indicate nature binding hill coefficient > 1 positively cooperative binding occur ligand bind affinity enzyme ligand(increase hill coefficient < 1

negatively cooperative binding occur ligand bind affinity enzyme ligand(decrease hill coefficient = 1 enzyme exhibit cooperative biochemistry guide example expert ph1704 protease pyrococcus horikoshii ot3 hyperthermophilic enzyme belong dj-1 thij pfpi superfamily member human protein dj-1 recently report cause certain type early onset parkinsonism increase number study superfamily conduct despite grow interest member superfamily biochemically characterize ph1704 endopeptidase cleave nonterminal amino acid aminopeptidase cleave amino acid n terminus activity analysis suggest ph1704 specifically cleave arginine 7 amino-4 methylcoumarin amc)- link substrate kinetic assay r- amc aafr amc predictive substrate docking study pinpoint tyr-120 active site possibly involve aromatic hydrophobic interaction substrate tyr-120 choose mutation analyze effect ph1704 kinetic result show table 1 lot context useful info ph1704 protease mean enzyme cleave 2 kind protease activity amc sound like molecule attach amino acid y120 like high y120p y120s product case low kcat general adapt zhan d. bai a. yu l. han w. feng y. 2014 characterization ph1704 protease pyrococcus horikoshii ot3 critical function tyr120 plos accord datum ph1704 equivalent aminopeptidase endopeptidase activity question ask data analysis know start make sure understand give material tell quick scan passage reveal unfamiliar enzyme terminology data pack table careful read passage big picture important order relate table try prove definitely go need bring outside knowledge enzyme passage describe enzyme call ph1704 characteristic outline half paragraph tell protease mean break peptide bond hyperthermophilic break term hyperthermophilic hyper- high -thermo- heat -philic love deduce enzyme bacterial species live high temperature tell endopeptidase endo- mean aminopeptidase strong preference arginine substrate describe study notice r amc discern aminopeptidase activity aafr amc test endopeptidase activity finally tell tyr-120 important activity researcher create mutation residue kinetic information result mutant describe question ask determine ph1704 act equally aminopeptidase endopeptidase order answer question note mutation datum y120 need ask wild type ph1704

question note mutation datum y120 need ask wild type ph1704 enzyme need comparison wt enzyme r- amc substrate wt enzyme aafr amc substrate need determine kcat km kcat km useful recall kcat provide information product produce unit time km measure substrate affinity enzyme maximally efficient want high catalytic turnover high kcat high substrate affinity low km good comparison kcat km datum equal catalytic efficiency enzyme catalytic efficiency ph1704 aminopeptidase 0.052 min1 μm ph1704 endopeptidase efficiency 0.018 min1 μm.

value catalytic efficiency different measure aminopeptidase endopeptidase activity conclude ph1704 function effectively aminopeptidase mcat concept check 2.3 assess understanding material question 1 effect increase s enzyme kinetic increase 2 michaelis menten lineweaver burk plot similar 3 km represent increase km signify 4 x- y intercept lineweaver burk plot represent 5 enzyme cooperativity 2.4 effect local condition enzyme chapter 2.4 able predict change environment alter enzyme behavior estimate ideal ph temperature enzyme find human body activity enzyme heavily influence environment particular temperature acidity alkalinity ph high salinity significant effect ability enzyme carry function note term enzyme activity enzyme velocity enzyme rate synonymously mcat enzyme catalyze reaction tend double velocity 10 ° c increase temperature optimum temperature reach human body 37 ° c 98.6 ° f 310 k activity fall sharply enzyme denature high temperature show figure 2.7 enzyme overheat regain function cool real life example temperature dependence occur siamese cat siamese cat dark face ear tail foot white enzyme responsible pigmentation tyrosinase mutate siamese cat ineffective body temperature cool temperature active tail foot ear face cool air pass nose mouth active form enzyme dark figure 2.7 effect temperature ph rate enzyme action ph level stomach intestine effect gastric pancreatic enzyme cover chapter 9 mcat biology review enzyme depend ph order function properly ph affect ionization active site change ph lead denaturation enzyme enzyme circulate function human blood optimal ph 7.4

show figure 2.7 ph < 7.35

human blood term acidemia basic chemically neutral 7.0 acidic physiologically neutral 7.4 exception ph 7.4 occur digestive tract pepsin work stomach maximal activity ph 2 pancreatic enzyme work small intestine work well ph 8.5 effect salinity osmolarity generally physiologic significance alter concentration salt change enzyme activity vitro increase level salt disrupt hydrogen ionic bond cause partial change conformation enzyme case mcat concept check 2.4 assess understanding material question 1 effect temperature ph salinity function enzyme 2 ideal temperature enzyme body ideal ph ideal temperature ° c = ° f = k ideal ph enzyme ideal ph gastric enzyme ideal ph pancreatic enzyme 2.5 regulation enzyme activity chapter 2.5 able explain feedback inhibition irreversible inhibition differentiate type reversible inhibition differentiate transient covalent enzyme modification recall trait zymogen enzyme useful body able control work example enzyme involve mitosis shut cell long divide g0 phase accomplish variety way describe enzyme subject regulation product give metabolic pathway process call feedback regulation enzyme regulate intermediate precede enzyme pathway call feed forward regulation clearly evident study metabolism discuss chapter 9 12 mcat biochemistry review example feedback activation feedback inhibition far common feedback inhibition negative feedback help maintain homeostasis give product want turn pathway create product create feedback inhibition product bind active site enzyme multiple enzyme act early biosynthetic pathway competitively inhibit enzyme make unavailable use schematically represent figure 2.8 product d feed inhibit enzyme figure 2.8 feedback inhibition product metabolic pathway high concentration product d inhibit enzyme 1 slow entire pathway negative feedback important topic enzymology endocrine system remember hormonal feedback loop inhibit negative feedback endocrine system discuss chapter 5 mcat biology review concept competitive inhibition relevance clinical setting example methanol wood alcohol ingest enzymatically convert toxic metabolite cause blindness death administration intravenous ethanol treatment choice patient suffer methanol poisoning ethanol work compete methanol active site

patient suffer methanol poisoning ethanol work compete methanol active site enzyme involve type reversible inhibition competitive noncompetitive mixed uncompetitive test day encounter competitive noncompetitive inhibition aware difference type table 2.2 end section summarize feature type reversible inhibition table 2.2 comparison reversible inhibitors competitive inhibition simply involve occupancy active site substrate access enzymatic binding site inhibitor way competitive inhibition overcome add substrate substrate inhibitor ratio high molecule substrate available molecule inhibitor enzyme likely bind substrate inhibitor assume enzyme equal affinity molecule add competitive inhibitor alter value vmax substrate add outcompete inhibitor able run reaction maximum velocity competitive inhibitor increase measure value km substrate concentration high reach half maximum velocity presence inhibitor lineweaver burk plot compare enzyme competitive inhibitor show figure 2.9 lineweaver burk plot competitive inhibition noncompetitive inhibitor bind allosteric site instead active site induce change enzyme conformation allosteric site non catalytic region enzyme bind regulator molecule compete site inhibition consider noncompetitive overcome add substrate noncompetitive inhibitor bind equally enzyme enzyme substrate complex unlike mix inhibitor enzyme conformation alter extra substrate conducive form enzyme substrate complex add noncompetitive inhibitor decrease measure value vmax enzyme available react alter value km copy enzyme active maintain affinity substrate lineweaver burk plot enzyme noncompetitive inhibitor show figure 2.10 figure 2.10 lineweaver burk plot noncompetitive inhibition mix inhibition result inhibitor bind enzyme enzyme substrate complex different affinity inhibitor affinity noncompetitive inhibitor mix inhibitor bind active site allosteric site mix inhibition alter experimental value km depend preference inhibitor enzyme vs. enzyme substrate complex inhibitor preferentially bind enzyme increase km value lower affinity inhibitor bind enzyme substrate complex lower km value increase affinity case vmax decrease lineweaver burk plot curve activity inhibitor intersect point axis uncompetitive inhibitor bind enzyme substrate complex essentially lock substrate enzyme prevent release interpret

increase affinity enzyme substrate enzyme substrate complex form bind uncompetitive inhibitor bind allosteric site fact formation enzyme substrate complex create conformational change allow uncompetitive inhibitor bind uncompetitive inhibitor lower km vmax lineweaver burk plot curve activity uncompetitive inhibitor parallel type inhibition active site unavailable prolonged period time enzyme permanently alter word type inhibition easily overcome reverse real world example aspirin acetylsalicylic acid aspirin irreversibly modify cyclooxygenase- 1 enzyme long bind substrate arachidonic acid product prostaglandin involve modulate pain inflammatory response prostaglandin new cyclooxygenase-1 synthesize transcription translation irreversible inhibition prime drug mechanism come medical school enzyme allosteric multiple bind site active site present site regulate availability active site know allosteric site allosteric enzyme alternate active inactive form inactive form carry enzymatic reaction molecule bind allosteric site allosteric activator allosteric inhibitor binding cause conformational shift protein effect differ activator result shift make active site available bind substrate inhibitor available addition able alter conformation protein binding activator inhibitor alter activity enzyme show figure 2.6 michaelis menten plot cooperative allosteric enzyme kinetic sigmoidal s shaped curve covalently modify enzyme addition transient interaction enzyme subject covalent modification enzyme activate deactivate phosphorylation dephosphorylation predict phosphorylation dephosphorylation activate enzyme experimental determination glycosylation covalent attachment sugar moiety covalent enzyme modification glycosylation tag enzyme transport cell modify protein activity selectivity specific mechanism modification enzyme glycosylation study scope mcat consider digestive enzyme discuss chapter 9 mcat biology review chew fat protein carbohydrate compound body enzyme know digest food body simply regulate activity coordinated manner feedback mechanism substance certain enzyme particularly dangerous tightly control include digestive enzyme like trypsin release pancreas uncontrolled manner digest organ avoid danger enzyme secrete inactive

zymogen like trypsinogen zymogen contain catalytic active domain regulatory domain regulatory domain remove alter expose active site apoptotic enzyme caspase exhibit similar regulation zymogen suffix ogen mcat concept check 2.5 assess

similar regulation zymogen suffix ogen mcat concept check 2.5 assess understanding material question 1 feedback inhibition 2 type reversible inhibitor potentially increase km 3 irreversible inhibition 4 example transient covalent enzyme modification 5 enzyme release zymogen current chapter focus way cell able carry reaction necessary life begin discussion type enzyme likely encounter test day review thermodynamic kinetic relation enzyme biological catalyst go discuss analysis kinetic datum different type graph talk cooperativity catalyst generally active native environment consider impact temperature ph salinity activity likely appear test day enzyme need regulate analyze basic feedback mechanism talk inhibitor enzyme reversible irreversible difference type reversible inhibition key test day concept finally discuss change enzyme activity include allosteric activation covalent modification cleavage inactive zymogen let discuss nonenzymatic function protein notice parallel new material concept describe chapter like bind affinity end chapter ready face protein question mcat throw review content test knowledge critical thinking skill complete test like passage set online resource enzyme biological catalyst enzymes biological catalyst unchanged reaction catalyze reusable enzyme catalyze single reaction type reaction high oxidoreductase catalyze oxidation reduction reaction involve transfer electron transferase functional group molecule hydrolase catalyze cleavage addition water lyase catalyze cleavage addition water transfer electron reverse reaction synthesis isomerase catalyze interconversion isomer include constitutional isomer stereoisomer ligase responsible join large biomolecule exergonic reaction release energy δg negative enzyme lower activation energy necessary biological reaction enzyme alter free energy δg enthalpy δh change accompany reaction final equilibrium position change rate kinetic equilibrium reach mechanism enzyme activity enzymes act stabilize transition state provide favorable microenvironment bond substrate molecule enzyme active site site catalysis

bind active site explain lock key theory induce fit model lock key theory hypothesize enzyme substrate exactly complementary induce fit model hypothesize enzyme substrate undergo conformational change interact fully enzyme require metal cation cofactor small organic coenzyme

interact fully enzyme require metal cation cofactor small organic coenzyme active enzyme experience saturation kinetic substrate concentration increase reaction rate maximum value michaelis menten lineweaver burk plot represent relationship hyperbola line respectively enzyme compare basis km vmax value cooperative enzyme display sigmoidal curve change activity substrate binding effect local condition enzyme temperature ph affect enzyme activity vivo change temperature ph result denaturing enzyme loss activity loss secondary tertiary present quaternary vitro salinity impact action enzyme regulation enzyme activity enzyme pathway highly regulate subject inhibition feedback inhibition regulatory mechanism catalytic activity enzyme inhibit presence high level product later pathway reversible inhibition characterize ability replace inhibitor compound great affinity remove mild laboratory treatment competitive inhibition result inhibitor similar substrate bind active site competitive inhibition overcome add substrate vmax unchanged km noncompetitive inhibition result inhibitor bind equal affinity enzyme enzyme substrate complex vmax decrease km unchanged mixed inhibition result inhibitor bind unequal affinity enzyme enzyme substrate complex vmax decrease km increase decrease depend inhibitor high affinity enzyme enzyme substrate uncompetitive inhibition result inhibitor bind enzyme substrate complex km vmax decrease irreversible inhibition alter enzyme way active site unavailable prolong duration permanently new enzyme molecule synthesize reaction occur regulatory enzyme experience activation inhibition allosteric site occupy activator increase affinity enzymatic turnover phosphorylation covalent modification phosphate glycosylation covalent modification carbohydrate alter activity selectivity enzyme zymogen secrete inactive form activate answers concept checks 1 catalyst characterize main property reduce activation energy reaction speed reaction course

reaction enzyme improve environment particular reaction take place lower activation energy regenerate end reaction original form 2 enzyme specificity refer idea give enzyme catalyze given reaction type reaction example serine threonine specific protein kinase place phosphate group hydroxyl group serine threonine residue addition synthesis reaction generally large molecule rearrangement bond compound cleavage single molecule product synthesis small breaking compound molecule addition

cleavage single molecule product synthesis small breaking compound molecule addition water oxidation reduction reaction transfer electron movement functional group molecule 4 enzyme effect overall thermodynamic reaction effect δg δh reaction lower energy transition state lower activation energy enzyme profound effect kinetic reaction lower activation energy equilibrium achieve fast equilibrium position change lock key active site enzyme fit exactly alteration tertiary quaternary structure enzyme accurate model active site enzyme mold substrate substrate present tertiary quaternary structure modify enzyme function accurate model 2 cofactor coenzyme act activator enzyme cofactor tend inorganic mineral coenzyme tend small organic compound vitamin case regulator induce conformational change enzyme promote activity tightly bind cofactor coenzyme necessary enzyme function term prosthetic group 1 increase s different effect depend substrate present begin substrate concentration low increase s

cause proportional increase enzyme activity high s enzyme saturate increase s effect activity vmax attain increase e increase vmax regardless start concentration enzyme 2 michaelis menten lineweaver burk relationship account value km vmax condition

provide simple graphical interpretation variable derive michaelis menten equation axis graph visual representation information different michaelis menten plot v vs. s create hyperbolic curve monomeric enzyme lineweaver burk plot hand 1 v vs. 1 s create straight line 3 km

measure enzyme affinity substrate define substrate concentration enzyme function half maximal velocity km increase enzyme affinity 4 x intercept represent 1 y intercept represent 5 cooperativity refer interaction subunit multisubunit enzyme protein binding substrate subunit induce change subunit t tense state r relaxed state encourage binding substrate subunit reverse direction unbinding substrate subunit induce change r t remain subunit promote unbinding substrate remain subunit 1 temperature increase enzyme activity generally increase double approximately 10 ° c body temperature enzyme activity quickly drop enzyme denature enzyme maximally active small ph range outside range activity drop quickly change ph ionization active site change protein denature change salinity disrupt bond enzyme cause disruption tertiary quaternary structure lead loss enzyme function 2 ideal temperature 37 ° c = 98.6 ° f = 310 k ideal ph enzyme 7.4 gastric enzyme 2 pancreatic enzyme 8.5 1 feedback inhibition refer product enzymatic pathway turn enzyme pathway help maintain homeostasis product level rise pathway create product appropriately downregulate 2 competitive inhibitor increase km substrate concentration high reach half maximum velocity presence inhibitor mixed inhibitor increase km inhibitor preferentially bind enzyme enzyme 3 irreversible inhibition refer prolonged permanent inactivation enzyme easily renature 4 example transient modification include allosteric activation inhibition example covalent modification include phosphorylation 5 zymogen precursor active enzyme critical certain enzyme like digestive enzyme pancreas remain inactive arrive target site science mastery assessment enzymes catalyze reaction lower activation energy change consume course reaction activation energy lower free energy reaction δg remain unchanged presence enzyme reaction continue occur presence absence enzyme simply run slow enzyme eliminate physiological

occur presence absence enzyme simply run slow enzyme eliminate physiological reaction optimize body temperature 37 ° c eliminate b finally dehydrogenase catalyze oxidation reduction reaction transfer reaction eliminate c enzyme human body operate maximal activity

temperature 37 ° c ph 7.4 ph body fluid addition characterize michaelis menten equation enzyme form enzyme substrate complex dissociate enzyme substrate proceed form product far eliminate b c d let check increase substrate concentration maintain constant enzyme concentration lead proportional increase rate reaction initially active site occupy reaction rate level regardless increase substrate concentration high concentration substrate reaction rate approach maximal velocity long change increase substrate enzyme devoid necessary cofactor call apoenzyme enzyme specificity determine dimensional shape active site regardless explanation enzyme specificity discuss lock key induce fit active site determine substrate enzyme react temperature dna polymerase sample increase 0 ° c usual physiological temperature i.e. 37 ° c enzyme activity increase temperature 37 ° c enzyme activity rapidly decline denaturation limit activity enzyme 1 rest pathway slow definition negative feedback incorrect competition active site allosteric interaction product competitively inhibit enzyme pathway create example allosterically inhibit enzyme information b correct tell inhibition reversible general allosteric interaction temporary c incorrect opposite occur enzyme 1 activity reduce equation give text useful recognize relationship important substrate concentration increase significantly small change rate occur approach vmax vmax near 100 mmol equal 50 mmol substrate concentration give rate 0.5 mm correspond km correct question relationship important concentration 5 × 106 m enzyme work

half vmax concentration equal km enzyme half 20 10 mmol correspond concentration 5 × 104 m 100 time substrate present half maximal velocity high value significantly large value km enzyme near vmax 20 mmol base graph substrate present oseltamivir result vmax high km compare inhibitor add hallmark competitive inhibitor noncompetitive inhibitor result decrease vmax km uninhibited reaction show zanamivir line graph question compare value inhibitor enzyme inhibitor mechanism inhibition important determine value km vmax great example preview answer choice work science lyase responsible breakdown single molecule molecule addition water transfer electron lyase form cyclic compound double bond product

accommodate water reactant cofactor mention lyase c remain good answer choice enzyme alter process catalysis molecule break intramolecular bond provide activation energy able cooperative enzyme demonstrate change affinity substrate depend substrate molecule bind change accomplish substrate molecule bind leave active site enzyme determine recent reaction binding dissociation b eliminate absolute comparison enzyme express positive cooperativity unbound enzyme low affinity substrate enzyme subunit bind high increase affinity necessarily linear furthermore site substrate bind enzyme bind substrate c true enzyme subunit occupy high affinity substrate enzyme subunit occupy d correct triglyceride unlikely act coenzyme reason include large size neutral charge ubiquity cell cofactor coenzyme tend small size metal ion like c small organic molecule usually carry charge ionization protonation deprotonation finally usually low tightly regulate concentration cell metabolic pathway expect include oxidation reduction reaction movement functional group eliminate b d rate reaction increase temperature increase kinetic energy reactant reach peak temperature enzyme denature disruption hydrogen bond excessively high temperature absence enzyme peak temperature generally hot heat reaction provide molecule increase chance achieve activation energy enzyme catalyst typically reduce activation energy mind thermodynamic kinetic interchangeable consider impact heat equilibrium position consult online resource additional practice equation remember 2.1 michaelis menten rate e + s e

equation remember 2.1 michaelis menten rate e + s e + p 2.2 michaelis menten equation km + s 2.3 turnover number kcat vmax = e]kcat biochemistry chapter 1 amino acid peptide proteins biochemistry chapter 12 bioenergetic regulation metabolism biology chapter 5 endocrine system biology chapter 9 digestive system general chemistry chapter 5 general chemistry chapter 7 general chemistry chapter 11 nonenzymatic protein function protein analysis pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength

weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 ph protein well obtain electrophoresi note mm = molar mass 2 function sodium dodecyl sulfate sds sds- a. sds stabilize gel matrix improve resolution b. sds solubilize protein uniformly negative charge separation base purely size c. sds raise ph gel separate multiunit protein d. sds solubilize protein uniformly positive charge separation base purely ph.

3 following involve cell migration 4 following protein likely find 5 hormone find body low concentration tend strong effect type receptor hormone likely act i. ligand gate ion channel ii enzyme link receptor iii g protein couple receptor a. b. iii c. ii iii d. ii iii 6 follow likely find bind protein body 7 following characteristic attribute a. antibody bind distinct antigen b. antibody label antigen targeting immune cell c. antibody cause agglutination interaction antigen d. antibody heavy chain light chain 8 ion channel responsible maintain rest a. ungate channel b. voltage gate channel c. ligand gate channel d. ion channel involve maintenance rest 9 follow component trimeric g 10 follow method good separate large quantity follow protein note mm = molar mass a. ion exchange chromatography b. size exclusion chromatography c. isoelectric focusing d. native page 11 amino acid contribute significantly pi a. b. ii c. iii d. ii iii 12 gel isoelectric focusing differ gel a. isoelectric focusing use gel large pore size allow complete migration b. isoelectric focusing use gel sds add encourage uniform negative charge c. isoelectric focusing use gel ph gradient encourage variable charge d. gel unchanged

isoelectric focusing protein mixture treat loading 13 protein property allow uv spectroscopy method determine concentration a. protein partially planar characteristic peptide bond b. globular protein cause scattering light c. protein contain aromatic group certain amino acid d.

organic macromolecule assess uv 14 protein collect affinity chromatography display activity find high concentration bradford protein assay well explain finding a. bradford reagent prepare incorrectly b. active site occupy free ligand c. protein bind column d. protein catalyze reaction interest 15 property protein digest enzyme allow sequence determine fully degrade protein nonenzymatic protein function protein analysis chapter 3.1 cellular function cell adhesion molecule g protein couple receptor 3.3 protein isolation 3.4 protein analysis amino acid composition content chapter relevant 4 question biochemistry mcat chapter cover material following aamc content category analysis 1a structure function protein constituent amino acid 3a structure function nervous endocrine system way system coordinate organ system 5c separation purification method 5d structure function reactivity biologically relevant molecule wonder athlete eat raw egg train help digestion increase enzymatic activity body protein muscle building muscle building increase cytoplasm enzyme find big increase see structural motor protein like actin myosin valid concern bacteria egg stop athlete drink raw egg protein shake massive container whey protein replace shelf health food store pharmacy supermarket chapter examine structural motor protein athlete love build complex protein function human include biosignaling finally learn determine protein concentration egg separation quantitative analysis 3.1 cellular function chapter 3.1 able compare contrast cytoskeletal protein motor protein associate collagen elastin keratin actin tubulin major function describe adhesive property cadherin integrin selectin predict possible outcome antibody bind antigen typical function provide protein cell include support cellular shape organization act enzyme enzymatic function protein detail chapter 2 mcat biochemistry review ready look protein function structural motor protein find abundance individual cell find extracellular matrix cytoskeleton think dimensional web scaffolding system cell comprise

protein anchor cell membrane embed protein complex addition intracellular support extracellular matrix compose protein support tissue body tendon ligament cartilage basement membrane proteinaceous primary structural protein body collagen elastin keratin

basement membrane proteinaceous primary structural protein body collagen elastin keratin actin tubulin structural protein generally highly repetitive secondary structure super secondary structure repetitive organization secondary structural element refer motif regularity give structural protein fibrous nature collagen characteristic trihelical fiber left handed helix weave form secondary right handed helix make extracellular matrix connective tissue find body important provide strength flexibility importance structure collagen highlight disorder osteogenesis imperfecta refer brittle bone disease collagen major component bone form unique specific secondary helical structure base abundance amino acid glycine replacement glycine amino acid cause improper folding collagen protein cell death lead bone fragility elastin important component extracellular matrix connective tissue primary role stretch recoil like spring restore original shape tissue keratin intermediate filament protein find epithelial cell keratin contribute mechanical integrity cell function regulatory protein keratin primary protein make hair actin protein make microfilament thin filament myofibril abundant protein eukaryotic cell actin protein positive negative polarity allow motor protein travel unidirectionally actin filament like way street tubulin protein make microtubule microtubule important provide structure chromosome separation mitosis meiosis intracellular transport kinesin dynein describe section like actin tubulin polarity negative end microtubule usually locate adjacent nucleus positive end usually periphery cell structural protein motor function presence motor protein motile cilia flagella bacteria sperm prime example contraction sarcomere muscle motor protein display enzymatic activity act atpase power conformational change necessary motor function motor protein transient interaction actin microtubule myosin primary motor protein interact actin addition role thick filament myofibril myosin involve cellular transport myosin subunit single head neck movement neck

responsible power stroke sarcomere motor protein responsible muscle contraction cellular movement moment review sarcomere structure chapter 11 mcat biology review example interaction motor protein cytoskeleton kinesin dynein motor protein associate microtubule head remain attach tubulin time kinesin play key role align chromosome metaphase depolymerize microtubule anaphase

kinesin play key role align chromosome metaphase depolymerize microtubule anaphase mitosis dynein involved slide movement cilia flagella protein important vesicle transport cell opposite polarity kinesin bring vesicle positive end microtubule dynein bring vesicle negative end neuron classic example motor protein polarity kinesin bring vesicle neurotransmitter positive end axonal microtubule synaptic terminal contrast dynein bring vesicle waste recycle neurotransmitter negative end microtubule soma retrograde transport activity kinesin illustrate figure 3.1 figure 3.1 stepwise activity kinesins kinesins microtubule stepping motion head remain attached time protein primarily exert enzymatic structural function cell stabilize function individual cell body protein act way transport sequester molecule bind bind protein include hemoglobin calcium bind protein dna bind protein transcription factor bind protein affinity curve molecule interest oxyhemoglobin dissociation curve know example curve differ depend goal bind protein sequestration molecule goal bind protein usually high affinity target large range concentration bind nearly 100 percent transport protein able bind unbind target maintain steady state concentration likely vary affinity depend environmental condition cell adhesion molecules cell adhesion molecule cams protein find surface cell aid bind cell extracellular matrix cell number different type cams integral membrane protein adhesion molecule classify major family cadherin integrin selectin cadherin group glycoprotein mediate calcium dependent cell adhesion cadherin hold similar cell type epithelial cell different cell usually type specific cadherin example epithelial cell use e cadherin nerve cell use n cadherin integrin group protein membrane span chain call α β chain important bind communicate extracellular matrix integrin play important role cellular signaling greatly impact cellular

function promote cell division apoptosis process example integrin αiibβ3 allow platelet stick fibrinogen clotting factor cause activation platelet stabilize clot integrin white blood cell migration stabilization epithelium basement membrane process selectin unique bind carbohydrate molecule project cell surface bond weak form cam discuss selectin express white blood cell endothelial cell

form cam discuss selectin express white blood cell endothelial cell line blood vessel like integrin play important role host defense include inflammation white blood cell migration show figure 3.2 figure 3.2 white blood cell migration selectin integrins protein involve white blood cell migration outside scope medication target selectin integrin example research show ability cancer cell metastasize break away tumor invade distant tissue associate unique expression pattern cams target cam metastasis avoid stop clotting process heart attack medication target cam platelet immune system complex different type cell protein cell protein common purpose rid body foreign invader prominent type protein find immune system antibody antibody call immunoglobulin ig protein produce b cell function neutralize target body toxin bacteria recruit cell help eliminate threat antibody y shaped protein identical heavy chain identical light chain show figure 3.3 disulfide linkage noncovalent interaction hold heavy light chain antibody antigen bind region tip y.

region specific polypeptide sequence bind specific antigenic sequence remain antibody molecule know constant region involve recruitment binding cell immune system macrophage antibody bind target call antigen cause figure 3.3 structure antibody molecule neutralize antigen make pathogen toxin unable exert effect body mark pathogen destruction white blood cell immediately marking function call opsonization clump agglutinate antigen antibody large insoluble protein complex phagocytize digest macrophage mcat concept check 3.1 assess understanding material question 1 cytoskeletal protein differ motor protein 2 true false motor protein enzyme 3 permit bind protein involve sequestration low affinity substrate high

percentage substrate bind 4 main class cell adhesion molecule type adhesion class form cell adhesion molecule type adhesion 5 antibody bind antigen possible outcome chapter 3.2 able contrast enzyme link receptor g protein couple receptor distinguish ungated channel voltage gate channel ligand gate recognize key feature transport kinetics biosignaling process biosignaling process cell receive act signal protein participate biosignaling different capacity

include act extracellular ligand transporter facilitate diffusion receptor protein second messenger protein involve biosignaling function substrate binding enzymatic activity ion channel protein create specific pathway charge molecule classify main group different mechanism opening permit facilitate diffusion charge particle facilitate diffusion type passive transport diffusion molecule concentration gradient pore membrane create transmembrane protein molecule impermeable membrane large polar charged facilitate diffusion allow integral membrane protein serve channel substrate avoid hydrophobic fatty acid tail phospholipid bilayer main type ion channel ungated voltage gate hundred ion channel identify function cell signaling cell excitability addition ion channel drug target treatment heart disease calcium channel blocker seizure sodium channel blocker irritable bowel syndrome acetylcholine receptor cation channel blocker suggest ungated channel gate unregulated example cell possess ungate potassium channel mean net efflux potassium ion channel potassium equilibrium voltage gate channel gate regulate membrane potential change near channel example excitable cell neuron possess voltage gate sodium channel channel close resting condition membrane depolarization cause protein conformation change allow quickly open quickly close voltage increase voltage gate nonspecific sodium potassium channel find cell sinoatrial node heart serve pacemaker current voltage drop channel open bring cell threshold fire action potential show figure 3.4 figure 3.4 action potential

sinoatrial node activity neuromuscular junction chemical synapse rely ligand- gate ion channel nervous system especially make use type gating voltage gate ion channel discuss chapter 4

mcat biology review ligand gate channel binding specific substance ligand channel cause open close example neurotransmitter act ligand gate channel postsynaptic membrane inhibitory neurotransmitter γ aminobutyric acid gaba bind chloride channel open km vmax parameter apply enzyme applicable transporter ion channel membrane kinetic transport derive michaelis menten lineweaver burk equation km refer solute concentration transporter function half maximum activity biosignaling advantage exist gradient ion channel second messenger cascade enzyme link receptor g protein couple receptor membrane receptor display catalytic activity response ligand bind enzyme link receptor primary protein domain membrane span domain ligand bind domain catalytic domain membrane span domain anchor receptor cell membrane ligand bind domain stimulate appropriate ligand induce conformational change activate catalytic domain result initiation second messenger cascade receptor tyrosine kinase rtk classic example rtk compose monomer dimerize ligand bind dimer active form phosphorylate additional cellular enzyme include receptor autophosphorylation class enzyme link receptor include serine threonine specific protein kinase receptor function heterotrimeric g protein mind p q gq activate phospholipase c. g protein couple receptors g protein couple receptor gpcr large family integral membrane protein involve signal transduction characterize seven membrane span α helix receptor differ specificity ligand bind area find extracellular surface cell order gpcrs transmit signal effector cell utilize heterotrimeric g protein g protein name intracellular link guanine nucleotide gdp gtp binding ligand increase affinity receptor g protein binding g protein represent switch active state affect intracellular signaling pathway different g protein result stimulation inhibition signaling pathway main type g protein gs stimulate adenylate cyclase increase level camp gi inhibit adenylate cyclase decrease level camp gq activate phospholipase c cleave phospholipid membrane form pip2 pip2 cleave dag ip3

c cleave phospholipid membrane form pip2 pip2 cleave dag ip3 ip3 open calcium channel endoplasmic reticulum increase calcium level cell subunit comprise g protein α β γ inactive

form α subunit bind gdp complex β γ subunit ligand bind gpcr receptor activated turn engage correspond g protein show step 1 figure 3.5 gdp replace gtp α subunit able dissociate β γ subunit step 2 activate α subunit alter activity adenylate cyclase α subunit α enzyme activate α subunit αi enzyme inhibit gtp activate α subunit dephosphorylate gdp step 3 α subunit rebind β γ subunit step 4 render g protein inactive figure 3.5 trimeric g protein cycle gs gi mcat concept check 3.2 assess understanding material question 1 contrast enzyme link receptor g protein couple receptor 1 type ion channel active time 2 transport kinetic differ enzyme kinetic 3.3 protein isolation chapter 3.3 able recall major category electrophoresis chromatography select appropriate protein isolation method give situation identify mobile stationary phase give separatory apparatus order well understand specific protein important able isolate protein study purification protein consider art form consider difficulty isolate protein cell contain hundred thousand protein luckily chapter 1 mcat biochemistry review highlight great variation

physical chemical property protein difference exploit order purify protein interest protein biomolecule isolate body tissue cell culture cell lysis homogenization crush grind blend tissue interest evenly mix solution centrifugation isolate protein small molecule isolation technique employ common isolation technique electrophoresis chromatography native denature protein method separate protein electrophoresi molecular biology important analytical technique electrophoresis work subject compound electric field move accord net charge size negatively charge compound migrate positively charged anode positively charge compound migrate negatively charged cathode velocity migration know migration velocity molecule v directly proportional electric field strength e net charge molecule z inversely proportional frictional coefficient f depend mass shape $v = \frac{ez}{f}$ polyacrylamide gel standard medium protein electrophoresis gel slightly porous matrix mixture solidify room temperature protein travel matrix relation size charge gel act like sieve allow small particle pass easily retain large particle molecule fast medium small highly charged place large electric field conversely molecule

migrate slow big convoluted electrically neutral place small electric field size standard polyacrylamide gel allow multiple sample run simultaneously show figure 3.6 figure 3.6 electrophoresis electrolytic nonspontaneous cell electrophoresis move charge particle respective oppositely charge electrode large particle slowly migrate electrophoresis use electrolytic cell δg > 0 ecell < 0

describe chapter 12 mcat general chemistry review remember anion anode cation cathode polyacrylamide gel electrophoresi page method analyze protein native state unfortunately page limit vary mass charge mass size ratio cellular protein multiple different protein experience level migration page functional native protein recover gel electrophoresis gel stain stain denature protein page useful compare molecular size charge protein know similar size analytic method like sds- page describe size exclusion chromatography analytic purpose protein atomic mass typically express dalton da dalton alternative term molar mass g mol average molar mass amino acid ~ 100 dalton 100 g sodium dodecyl sulfate sds)–polyacrylamide gel electrophoresi useful tool separate protein basis relative molecular mass sds page technique start premise page add sds detergent disrupt noncovalent interaction bind protein create large chain net negative charge neutralize protein original charge denature protein protein gel variable affect velocity e electric field strength f frictional coefficient depend mass separation gel stain protein band visualize result record isoelectric focusing protein stop move ph = pi.

protein separate basis isoelectric point pi pi ph protein amino acid electrically neutral equal number positive negative charge individual amino acid electrically neutral form call zwitterion amino acid zwitterion form occur amino group protonate carboxyl group deprotonate chain electrically neutral exception general rule arginine lysine amino acid basic chain amino acid nitrogen contain chain high pka value amino group zwitterion form occur amino group deprotonate electrically neutral nitrogenous chain protonate carboxyl group deprotonate

calculation pi amino acid discuss chapter 1 mcat biochemistry review polypeptide isoelectric point primarily determine relative number acidic basic amino acid isoelectric focusing exploit acidic basic property amino acid separate basis isoelectric point pi mixture protein place gel ph gradient acidic gel positive anode basic gel negative cathode neutral middle electric field generate gel protein positively charge begin migrate cathode protein negatively charge begin migrate anode protein reach portion gel ph equal protein pi protein take neutral charge stop move anode isoelectric focusing a+ anode acidic h+-rich gel + charge let deep look work start protein pi 9 protein environment ph 9 carry net charge place protein gel ph 7 proton protein proton attach available basic site protein create net positive charge molecule charge cause protein attract negatively charged cathode locate basic gradient protein move close cathode ph gel slowly increase eventually protein near ph 9 proton create positive charge dissociate protein neutral quick way remember ph end gel recall associate acid proton carry positive charge anode positively charge associate basis negatively charge hydroxide ion give negatively charge chromatography tool use physical chemical property separate identify compound complex mixture chromatography refer variety technique require homogenize protein mixture fractionate porous matrix reason chromatography valuable tool isolate protein immediately available identification quantification form chromatography discuss concept identical similar compound surrounding polarity charge stick slowly surrounding chromatography prefer electrophoresis large

surrounding polarity charge stick slowly surrounding chromatography prefer electrophoresis large amount protein separate chromatography separatory method discuss chapter 12 mcat organic chemistry review process begin place sample solid medium call stationary phase adsorbent step run mobile phase stationary phase allow sample run stationary phase elute depend relative affinity sample stationary mobile phase different substance migrate different speed component high affinity stationary phase barely migrate component high affinity mobile phase migrate quickly time compound spend stationary phase refer retention time

vary retention time compound solution result separation component stationary phase partitioning demonstrate figure 3.7 component isolate individually study figure 3.7 partitioning black ink thin layer chromatography original spot place card component high retention time remain near card component low retention time migrate card chromatography affinity substance mobile stationary phase size exclusion chromatography use myriad different medium stationary phase exploit different property allow separate compound chromatography protein separation common property include charge pore size specific affinity column chromatography column fill silica alumina bead adsorbent gravity move solvent compound column show figure 3.8 solution flow column size polarity role determine quickly compound move polar silica alumina bead polar compound fast elute column short retention time column chromatography solvent polarity ph salinity easily change help elute protein interest figure 3.8 column chromatography sample add column solvent pour similar sample solvent mobile phase quickly elute similar alumina silica stationary phase slowly elute eventually solvent drip end column different fraction leave column collect time fraction contain band correspond different compound collection solvent evaporate compound interest keep column chromatography particularly useful biochemistry separate collect macromolecule protein method bead column coat charge substance attract bind compound opposite charge instance positively charge column attract hold negatively charge protein pass column increase retention time retain completely compound move column salt gradient elute charge molecule stick column method bead column contain

gradient elute charge molecule stick column method bead column contain tiny pore vary size tiny pore allow small compound enter bead slow large compound fit pore travel column fast important remember type chromatography small compound slow retain long counterintuitive size pore vary molecule different molecular weight fractionate common approach protein purification use ion exchange column follow size exclusion column customize column bind protein interest create column high affinity protein accomplish coat bead receptor bind

protein specific antibody protein case protein retain column common stationary phase molecule include nickel separation genetically engineer protein histidine tag antibody antigen enzyme substrate analogue mimic natural substrate enzyme interest protein retain column elute wash column free receptor target antibody compete bead bind receptor ultimately free protein column eluent create specific ph salinity level disrupt bond ligand protein interest drawback elution step recover substance bind eluent example eluent inhibitor enzyme difficult remove biochemistry guide example expert phospholipases a2 pla2 comprise set extracellular intracellular enzyme catalyze hydrolysis sn-2 fatty acyl bond phospholipid yield fatty acid lysophospholipid extracellular secrete pla2 enzyme spla2 low molecular masse 13–18 kda manifest significant fatty acid selectivity vitro mammalian spla2 enzyme characterize know aquatic spla2 enzyme study represent great potential source discover new enzyme lot intro detail importance pla2 cut passage definitely go focus aquatic pancreases stingray harvest subject multiple purification protocol include ammonium sulfate precipitation purification column monitor spla2 activity final purification step involve reverse phase high performance liquid chromatography rp hplc c8 nonpolar octylsilane column dynamic gradient compose water acetonitrile time increase proportion water decrease concentration acetonitrile increase 80 see figure 1a eluate monitor 280 nm fraction 23 min analyze 15 sds page reduce condition stain coomassie blue figure 1b.

mobile phase water figure show trend fig 1a big peak ~23 min 1b single band figure 1a graph figure 1b blot adapt bacha a. b. karray a. bouchaala e. gargouri y. ali y. b. 2011 purification biochemical characterization pancreatic phospholipase a2 accord datum

approximate monomeric molecular weight spla2 biologically relevant spla2 require high acetonitrile concentration elute column accord datum question stem let know need use part figure answer let start quick scan passage topic kind information present well understand context datum text focus protein call phospholipase a2 pla2 figure 1 show peak gel picture

inset bulk passage method heavy indicate usage column name figure reference question answer ask size protein second ask connection biology pla2 way pla2 interact column determine monomeric molecular weight spla2 need information sds page datum figure 1b. know background content knowledge sds page gel reduce condition denature protein sever disulfide bond band appear correspond monomer monomer question ask lane series molecular weight standard measure kilodalton kda estimate molecular weight unknown protein tell fraction 23 minute correspond spla2 peak chromatogram analyze lane 2 gel band lane 2 correspond spla2 right 14 kda standard lane 1 imply spla2 protein weight approximately 14 kda extra measure verification paragraph 1 state spla2 molecular weight 13–18 paragraph 2 discuss method experiment help answer second question stem detail paragraph 2 rp hplc type column chromatography like type column chromatography rp hplc stationary phase column mobile phase solvent tell column nonpolar mean nonpolar molecule stick inside column tell solvent change composition time start water end acetonitrile change composition significant recall water polar solvent acetonitrile close nonpolar early solvent water polar molecule flush column like dissolve like near end experiment solvent acetonitrile nonpolar solvent dislodge nonpolar molecule nonpolar molecule elute column near end experiment finally observe spla2 protein elute column near end solvent acetonitrile observation imply spla2 protein net nonpolar nonpolar protein initially stick nonpolar column protein eventually elute column solvent nonpolar solvate protein conclude spla2 monomer molecular weight 14 kda experimental procedure conclude spla2 protein high affinity nonpolar substance wall nonpolar column later nonpolar acetonitrile solvent

affinity nonpolar substance wall nonpolar column later nonpolar acetonitrile solvent behavior make biological sense biological substrate spla2 protein mcat concept check 3.3 assess understanding material question 1 separation method isolate protein basis isoelectric 2 relative benefit native page compare sds page 3 potential drawback affinity chromatography 4 true false size exclusion chromatography large molecule elute 3.4 protein analysis chapter 3.4

able recall trait typically analyze protein describe edman degradation bradford assay recognize limitation protein separation analysis technique nmr form spectroscopy discuss chapter 11 mcat organic separate protein generally step analysis step study isolate protein protein structure function quantity interest researcher commercial laboratory protein identification protein analysis tool example case protein synthesis commercial use purity product periodically assess protein study break part examine protein structure determine x ray crystallography nuclear magnetic resonance nmr spectroscopy crystallographic analysis protein isolate crystallize x ray crystallography reliable common method 75 percent protein structure know today analyze method crystallography measure electron density extremely high resolution scale nucleic acid x ray diffraction pattern generate method show figure 3.9 small dot diffraction pattern interpret determine protein figure 3.9 diffraction pattern x ray crystallography minority protein structure determination 25 percent accomplish nmr discuss chapter 11 mcat organic amino acid composition amino acid compose protein determine complete protein hydrolysis subsequent chromatographic analysis random nature hydrolysis prevent amino acid sequencing determine primary structure protein sequential digestion protein specific cleavage enzyme small protein well analyze edman degradation use cleavage sequence protein 50 70 amino acid edman degradation selectively sequentially remove n terminal amino acid protein analyze mass spectroscopy like pcr gene sequencing protein amino acid sequencing automate stepwise manner combine information technique researcher determine chromosome gene code particular protein reside large protein digestion chymotrypsin trypsin cyanogen bromide synthetic reagent digestion selectively cleave protein specific amino acid residue create small fragment analyze electrophoresi

protein specific amino acid residue create small fragment analyze electrophoresi edman degradation disulfide link salt bridge break reduce protein primary structure position determine method protein activity generally determine monitor know reaction give concentration substrate compare standard activity correlate concentration affect purification

method condition assay reaction color change particular applicability microarray rapidly identify sample chromatographic analysis contain compound interest concentration determine exclusively spectroscopy protein contain aromatic chain analyze uv spectroscopy treatment type analysis particularly sensitive sample contaminant protein cause colorimetric change specific reaction particularly bicinchoninic acid bca assay lowry reagent assay bradford protein assay bradford method common reliability simplicity bradford protein assay bradford protein assay mix protein solution coomassie brilliant blue dye dye protonated green brown color prior mix protein depict figure 3.10 dye give proton bind amino acid group turn blue process ionic attraction dye protein stabilize blue form dye increase protein concentration correspond large concentration blue dye solution sample know protein concentration react bradford reagent absorbance measure create standard curve unknown sample expose condition concentration determine base standard curve accurate method type protein present solution variable binding coomassie dye different amino acid accurate protein present bradford protein assay limit presence detergent sample excessive buffer figure 3.10

bradford protein assay acidic form left brown green hue basic form right create interaction protein solution brilliant blue hue mcat concept check 3.4 assess understanding material question 1 protein analyze isolation 2 factor cause activity assay display low activity expect concentration determination 3 true false edman degradation proceed carboxy c- terminus chapter explore nonenzymatic aspect protein way protein analyze cellular protein function discuss include structural protein play role cytoskeletal architecture motor protein involve muscle contraction movement cytoskeleton protein play complex role binding immunologic function biosignaling complex protein involve biosignaling highlight chapter include ion channel enzyme link receptor g protein couple receptor finally determine isolate identify protein relevant property chapter turn attention class biomolecule carbohydrate transition amino acid peptide protein monosaccharide oligosaccharide polysaccharide look key connection different type macromolecule body structure fuel source end biomolecule relate

metabolism explore chapter 9 12 mcat biochemistry review review content test knowledge critical thinking skill complete test like passage set online resource structural protein compose cytoskeleton anchor protein extracellular matrix common structural protein collagen elastin keratin actin tubulin generally fibrous nature motor protein head capable force generation conformational change catalytic activity act atpase power movement muscle contraction vesicle movement cell cell motility common application motor protein common example include myosin kinesin dynein bind protein bind specific substrate sequester body hold concentration steady state cell adhesion molecule cam allow cell bind cell cadherin calcium dependent glycoprotein hold similar integrin membrane span chain permit cell adhere protein extracellular matrix selectin allow cell adhere carbohydrate surface cell commonly immune system antibody immunoglobulin ig immune system target specific antigen protein surface pathogen invade organism toxin immunoglobulin contain constant region variable region variable region responsible antigen binding identical heavy chain identical light chain form single antibody hold disulfide linkage ion channel regulate ion flow cell main type ion channel ungated

channel regulate ion flow cell main type ion channel ungated channel open voltage gate channel open range membrane ligand gate channel open presence specific bind substance usually hormone neurotransmitter enzyme link receptor participate cell signaling extracellular ligand binding initiation second messenger g protein couple receptor membrane bind protein associate trimeric g protein initiate second ligand bind engage g protein gdp replace gtp α subunit dissociate β activate α subunit alter activity adenylate cyclase gtp dephosphorylate gdp α subunit rebind β γ subunit electrophoresis use gel matrix observe migration protein response electric field native page maintain protein shape result difficult compare mass charge ratio differ sds page denature protein mask native charge comparison size accurate functional protein recapture gel isoelectric focusing separate protein isoelectric point pi protein migrate electrode reach region gel ph = pi protein chromatography separate protein

mixture basis affinity stationary phase mobile phase column chromatography use bead polar compound like silica alumina stationary phase nonpolar solvent ion exchange chromatography use charge column variably saline eluent size exclusion chromatography rely porous bead large molecule elute trap small affinity chromatography use bind receptor ligand eluent free ligand receptor protein interest protein structure primarily determine x ray crystallography protein isolate nmr amino acid composition determine simple hydrolysis amino acid sequencing require sequential degradation activity level enzymatic sample determine follow process know reaction accompany color change protein concentration determine colorimetrically uv spectroscopy color change reaction bca assay lowry reagent assay bradford protein assay test protein different advantage disadvantage bradford protein assay use color change brown- green blue common answer concept check 1 cytoskeletal protein tend fibrous repeat domain motor protein tend atpase activity bind head type protein function cellular motility 2 false enzyme protein rna molecule catalytic activity motor protein motor function generally consider nonenzymatic atpase functionality motor protein indicate molecule catalytic

generally consider nonenzymatic atpase functionality motor protein indicate molecule catalytic activity 3 bind protein present sufficiently high quantity relative substrate nearly substrate bind despite low affinity cell adhesion molecule type adhesion cell similar type calcium cell protein extracellular matrix cell carbohydrate usually surface cell 5 antigen antibody interaction result neutralization pathogen toxin opsonization marking antigen destruction creation insoluble antigen antibody complex phagocytize digest macrophage agglutination 2 ungated channel open 3 transport kinetic display km vmax value cooperative like bind protein transporter analogous keq value reaction catalysis 1 isoelectric focusing ion exchange chromatography separate protein base charge charge protein give environment determine isoelectric point pi 2 native page allow complete protein recover analysis accurately determine relative globular size protein sds page eliminate conflation mass charge 3 protein

interest elute column affinity high permanently bind free receptor eluent 4 true small pore size exclusion chromatography trap small particle retain column 1 protein isolation generally step analysis protein identity confirm amino acid analysis activity unknown protein classification feature generally 2 contamination sample detergent sds yield artificially increase protein level lead low activity expect protein concentration calculate high actual value alternatively enzyme denature isolation analysis 3 false edman degradation proceed amino n-terminus science mastery assessment electrophoresis experiment attempt separate component attempt isolate protein ph cause protein negative protein b c neutral positive good ph 5.5 accomplish goal protein b c positively charge ph 4.5 c protein neutral migrate gel neutral impurity remain protein make ph good sodium dodecyl sulfate detergent digest protein form micelle uniform negative charge protein sequester micelle factor charge protein shape minimal role separation essence protein micelle model sphere dependent size give choice involve cell movement exception d centriole compose microtubule involve mitosis cell migration prevalent extracellular protein keratin elastin collagen tubulin actin primary cytoskeletal protein myosin ligand present low

collagen tubulin actin primary cytoskeletal protein myosin ligand present low quantity strong action expect initiate second messenger cascade system second messenger system amplify signal enzyme catalyze reaction active activate enzyme enzyme link receptor g protein couple receptor use second messenger system ion channel ion readily accessible cytoplasm extracellular space likely bind bind protein classically calcium magnesium protein bind background knowledge question answer sodium potassium b exist free state participate action potential chloride c readily excrete kidney true protein bind calcium sequester bloodstream intracellularly calcium muscle contraction exocytosis neurotransmitter signal cellular process tightly regulate antibody specific single antigen b cell produce single type antibody constant region specific host variable region specific antigen rest membrane potential display cell actively involve signal transduction ungated leak channel permit limited

free flow ion sodium potassium pump active correct leakage ligand gate voltage gate channel involve cell signaling pacemaker potential certain cell cause deviation maintenance rest membrane trimeric g protein α β γ subunits—(a b c respectively g gi gq subtype gα subunit trimeric g protein differ depend g protein couple receptor function protein describe question differ primarily molecular weight pi value close ion exchange chromatography good choice question specify large quantity well process chromatography electrophoresi c d)—because gel handle small volume protein overall pi protein determine relative number acidic basic amino acid basic amino acid arginine lysine histidine acidic amino acid aspartic acid glutamic acid glycine chain hydrogen atom contribution amino acid gel isoelectric focusing use ph gradient protein region ph pi negatively charge move anode ph region pi positively charge move cathode ph equal pi migration protein halt uv spectroscopy

well conjugate system double bond double bond peptide bond display resonance adequate uv absorption aromatic system conjugate phenylalanine tyrosine tryptophan contain aromatic ring protein activity concentration generally correlate high concentration protein expect high activity protein damage inactivate way protein inactivate experimental condition like detergent heat ph answer choice consider experimental procedure work protein elute affinity column bind free ligand situation bind reverse free ligand compete active site enzyme lower activity selective cleavage protein digestive enzyme allow fragment different length know amino acid endpoint create cleave protein different enzyme basic outline amino acid sequence create consult online resource additional practice equation remember 3.1 migration velocity v = ez biochemistry chapter 1 amino acid peptide protein biology chapter 1 biology chapter 8 immune system biology chapter 11 musculoskeletal system general chemistry chapter 12 organic chemistry chapter 12 separation purifications carbohydrate structure pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip

mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read corresponding subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 glucose straight chain formation a. aldoketose b. pentose c. chiral carbon d.

group 16 stereoisomer 2 follow true epimer a. differ configuration carbon b. usually slightly different chemical physical c. diastereomer exception glyceraldehyde d. equal opposite optical activity 3 aldonic acid compound a. oxidize act reduce agent b. reduce act reduce agent c. oxidize act reduce agent d. oxidize act oxidize agent 4 formation α d glucopyranose β -d glucopyranose 5 ketose sugar ability act reduce sugar process explain a. ketose sugar undergo tautomerization b. ketone group oxidize directly c. ketose sugar undergo anomerization d. ketone group reduce directly 6 product follow reaction 7 following enzyme cleave polysaccharide chain yield maltose exclusively c. debranche enzyme d. glycogen phosphorylase 8 following straight chain fischer projection convert chair ring conformation structure 9 α anomer d glucose likely form β a. β anomer prefer metabolism b. β anomer undergo electron repulsion c. α anomer stable anomer d. α anomer form l glucose 10 polysaccharide share glycosidic linkage type common a. cellulose amylopectin b. amylose glycogen c. amylose cellulose d. glycogen amylopectin 11 follow digestible human type monosaccharide 12 reaction example step a. aldehyde formation b. hemiketal formation d. glycosidic bond cleavage 13 galactose c-4 epimer glucose structure show following structure galactose 14 andersen disease glycogen storage disease type iv condition characterize deficiency glycogen branch enzyme absence enzyme likely cause following effect a. decrease

glycogen solubility human cell b. slow action glycogen phosphorylase c. storage glucose body d. glycogen devoid α-1,4 linkage 15 cyclic form monosaccharide a. b. iii c. ii d. ii iii answer key

follow page carbohydrate structure chapter 4.1 carbohydrate classification 4.2 cyclic sugar molecule oxidation reduction 4.4 complex carbohydrate content chapter relevant 4 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism 5d structure function reactivity biologically relevant molecule carbohydrate know colloquially carb experience tumultuous decade american culinary culture remember food pyramid advise consume 6 11 serving carbohydrate form bread cereal rice pasta day nowadays inundate recommendation cut cut carb carbohydrate food drink continue fill refrigerator cupboard healthy debatable research food choice continue certain carbohydrate direct source chemical energy organism range single celled protozoan complex organism plant animal include people

molecular standpoint carbohydrate define empirical formula cn(h2o)n definition consider antiquated formula apply simple monomeric sugar call monosaccharide simple sugar link form complex sugar water loss occur change empirical formula cn(h2o)m complex sugar chapter discuss type carbohydrate utilize metabolism classify structure exist biochemical reaction undergo 4.1 carbohydrate classification chapter 4.1 able recognize common feature sugar nomenclature apply principle stereoisomerism sugar nomenclature structure distinguish enantiomer epimer classify simple sugar base structure carbohydrate come type classify number sugar moiety number carbon sugar functional group present molecule stereochemistry mcat like present complex novel molecule test basic information deal carbohydrate exam look functional group see aldehyde ketone alcohol realize retain chemical property know discuss carbohydrate biology make sense start basic structural unit monosaccharide simple monosaccharide contain carbon atom call triose carbohydrate carbon atom call tetrose pentose hexose respectively carbohydrate contain aldehyde group oxidized

functional group call aldose ketone group oxidize functional group call ketose take six- carbon sugar aldehyde group call aldohexose carbon sugar ketone group call ketopentose basic structure monosaccharide illustrate simple sugar glyceraldehyde aldose show figure 4.1 figure 4.1 glyceraldehyde simple aldose aldotriose glyceraldehyde polyhydroxylated aldehyde describe aldose aldehyde sugar numbering carbon atom monosaccharide follow rule describe chapter 1 mcat organic chemistry review carbonyl carbon oxidize low possible number aldose aldehyde carbon carbon number c-1 aldehyde carbon participate glycosidic linkage sugar act substituent linkage call glycosyl residue simple ketone sugar ketose dihydroxyacetone show figure 4.2 carbonyl carbon oxidize case low number assign carbon number c-2 true fact ketose mcat carbonyl carbon c-2 ketose participate glycosidic bond carbon notice monosaccharide carbon carbonyl carbon carry figure 4.2 dihydroxyacetone simple ketose ketotriose mcat sugar test reference common name name necessarily follow nomenclature rule list familiar name important monosaccharide list figure 4.3 figure 4.3 common name frequently test sugar mcat biochemistry guide example expert carbohydrate base wound

test sugar mcat biochemistry guide example expert carbohydrate base wound dressing receive increase attention recent year occlusive functionally interactive property afford bacterial odor protection fluid balance elasticity modern dressing efficacy healing saline paraffin gauze opportunity improve cotton base dressing protease like human neutrophil elastase find high concentration chronic wound create considerable growth factor extracellular matrix protein destruction prevent wound heal wound dressing selectively sequester elastase chronic wound build concept property protease tailor molecular design wound dressing elastase glycoprotein contain significant carbohydrate portion show glycosamine base advantage want well negative effect elastase wound interested design sugar- base bandage reasons potential carbohydrate carbohydrate interaction protein monosaccharide conjugate cellulose dressing additional carbohydrate protein interaction active site study researcher compare preparation activity elastase presence monosaccharide

conjugate citrate cellulose bandage work sugar work well series monosaccharide figure 1 link

cotton cellulose gauze acid- catalyze citric acid reaction vary amount treat gauze sample submerge 1 unit ml elastase hour room temperature individual gauze sample remove unbound elastase assay monitor spectrophotometric release p nitroaniline 410 nm enzymatic hydrolysis nitroanilide initial activity remain elastase monosaccharide specific amount treat gauze plot different sugar figure link different amount gauze add set elastase gauze remove come diagram need iv gauze type sugar dv slope correspond initial steep line adapt edwards j. v. caston pierre s. 2013 citrate link keto- aldo hexose monosaccharide cellulose conjugate demonstrate selective human neutrophil elastase- lower activity cotton dressing journal functional biomaterials 4(2 59 73 accord datum class monosaccharide gauze help prevent elastase mediated question ask select type monosaccharide prevent understand purpose passage data tell paragraph describe advantageous bandage currently researcher interested improve selectively bind protease prevent healing like elastase let look experimental setup paragraph 2 sugar link bandage soak solution elastase remove assumption well sugar bind elastase elastase leave solution researcher assay bandage remove well bind activity figure clearly set line galactose allose mannose activity large fiber base figure 1 sugar aldohexose sugar

aldehyde c-1 position sorbose tagatose psicose fructose quickly drop activity increase amount fiber base figure 1 sugar ketohexose sugar ketone c-2 position comparison bit clear let consider activity set 5 mg fiber ketohexose 1.5 ×103 slope aldohexose 3.3 ×103 slope slope correspond activity activity see ketohexose equivalent amount carbohydrate bind bandage correspond conclude researcher investigate usage ketohexose help prevent elastase mediate wound damage class sugar bind elastase well aldohexose isomerism discuss detail chapter 2 mcat organic chemistry review isomerism see carbohydrate extension conversation sugar relate enantiomer diastereomer optical isomer call stereoisomer compound chemical

formula molecule differ term spatial arrangement component atom special type isomerism exist stereoisomer nonidentical nonsuperimposable mirror image molecule call enantiomer chiral carbon atom different group attach molecule contain chiral carbon internal plane symmetry enantiomer system name chiral carbon interchangeable d isomer equivalent r s deal biomolecule like sugar anticipate biochemist method nomenclature d l. try figure possible stereoisomer exist multi carbon compound identify number chiral carbon n plug formula 2n example 21 = 2 stereoisomer 22 = 4 stereoisomer figure 4.4 illustrate enantiomer glyceraldehyde d- l- glyceraldehyde particular dimensional arrangement group attach chiral carbon determine compound absolute configuration organic chemist use new r s system denote absolute configuration biochemist use old d l system notice figure d glyceraldehyde l-glyceraldehyde mirror image make enantiomer opposite absolute configuration chiral carbon present stereoisomer exist glyceraldehyde number chiral carbon increase number possible stereoisomer compound diastereomer number possible stereoisomer compound calculate figure 4.4 enantiomer glyceraldehyde d l base stereochemistry glyceraldehyde directly relate + designation denote optical rotation number stereoisomer common backbone = 2n n number chiral carbon molecule early twentieth century scientist glyceraldehyde learn optical rotation sugar result early study lead d l naming convention d glyceraldehyde

later determine exhibit positive rotation designate d-(+)-glyceraldehyde l glyceraldehyde negative rotation designate l-()-glyceraldehyde note direction rotation + determine experimentally determine d l designation sugar mcat monosaccharide assign d l configuration base relationship glyceraldehyde fischer projection simple dimensional drawing stereoisomer recall fischer projection horizontal line wedge page vertical line dash page show figure 4.5 figure 4.5 fisher projection horizontal line wedge page vertical line dash page fischer projection allow scientist identify different enantiomer system structural representation d sugar hydroxide highest number chiral center right l sugar hydroxide left d glucose l glucose enantiomer mean chiral center d glucose opposite configuration l glucose show figure 4.6

figure 4.6 enantiomer glucose sure familiar type stereoisomer 1 sugar different optical family enantiomer d glucose l glucose 2 sugar family ketose aldose number carbon identical mirror image diastereomer 3 special subtype diastereomer differ configuration exactly chiral center define epimer d ribose d arabinose differ c-2 show figure 4.7 figure 4.7 d ribose d arabinose c-2 epimer summary different type isomer provide figure 4.8 show different stereoisomer aldotetrose include optical form erythrose optical form threose figure 4.8 stereoisomer aldotetrose d erythrose l erythrose nonsuperimposable mirror image enantiomer hand d erythrose d threose mirror image nonsuperimposable make diastereomer similarly l-erythrose d threose diastereomer differ configuration chiral center define epimer remember compound enantiomer left hand right hand vice versa multiple diastereomer depend chiral carbon invert molecule mcat concept check 4.1 assess understanding material question 1 carbon sugar aldehyde group carbon sugar ketone group 2 draw possible d stereoisomer glucose fischer projection form 3 diastereomer glucose previous question consider epimer glucose enantiomer 4.2 cyclic sugar molecule chapter 4.2 able convert haworth fischer projection define explain sugar relate concept include hemiacetal hemiketal pyranose furanose anomeric carbon predict impact mutarotation conformation identify stable anomer give sugar monosaccharide contain hydroxyl

mutarotation conformation identify stable anomer give sugar monosaccharide contain hydroxyl group serve nucleophile carbonyl group common electrophile mcat undergo intramolecular reaction form cyclic hemiacetal aldose hemiketal ketose ring strain cyclic molecule stable solution six- membered pyranose ring membered furanose ring fact sugar tend exist predominantly cyclic form hydroxyl group act nucleophile ring formation oxygen member ring structure regardless hemiacetal hemiketal form carbonyl carbon chiral process refer anomeric carbon figure 4.9 demonstrate carbonyl contain c-1 hydroxyl group c-5 d glucose undergo intramolecular hemiacetal formation ring form emerge cyclization sugar molecule α β molecule differ anomeric carbon term anomer glucose α anomer oh group c-1

trans ch2oh substituent axial β anomer oh group c-1 cis ch2oh substituent equatorial figure 4.9 cyclic sugar formation intramolecular nucleophilic addition glucose form membered ring anomeric form α left β note figure 4.9 kind projection glucopyranose haworth projection fischer projection haworth projection useful method describe dimensional conformation cyclic structure haworth projection depict cyclic sugar planar five- membered ring face ring nearly perpendicular page reality membered ring close planar pyranose ring adopt chair like configuration substituent assume axial equatorial position minimize steric hindrance convert monosaccharide straight chain fischer projection haworth projection group right fischer projection point expose hemiacetal ring water cause spontaneously cycle open closed form substituent single bond c-1 c-2 rotate freely α- β anomer form demonstrate figure 4.10 spontaneous change configuration c-1 know mutarotation occur rapidly reaction catalyze acid base mutarotation result mixture contain α- β anomer equilibrium concentration glucose 36 α 64 β solution α anomeric configuration favored hydroxyl group anomeric carbon axial add steric strain molecule solid state solution preference mitigate anomeric effect help stabilize α anomer outside scope figure 4.10 mutarotation interconversion α- β anomer ring opening reclose mcat concept check 4.2 assess understanding material question 1 explain relationship carbonyl carbon anomeric carbon

understanding material question 1 explain relationship carbonyl carbon anomeric carbon alpha beta form sugar molecule 2 draw stable anomer d glucose haworth projection form 3 draw stable anomer d glucose chair configuration chapter 4.3 able predict product sugar reaction include oxidation reduction esterification glycosidic linkage formation contrast tollens reagent benedict reagent apply reaction sugar biological context monosaccharide contain alcohol aldehyde ketone functional group undergo reaction present compound include oxidation reduction esterification nucleophilic attack create glycoside oxidation reduction important biochemical reaction human body oxidation carbohydrate order yield energy monosaccharide switch anomeric configuration hemiacetal ring spend short period time open

chain aldehyde form like aldehyde oxidize carboxylic acid oxidize aldose call aldonic acid aldose oxidize consider reduce agent monosaccharide hemiacetal ring consider reduce sugar aldose question ring form oxidation yield lactone instead cyclic ester carbonyl group persist anomeric carbon show figure 4.11 lactone vitamin c play essential role human body figure 4.11

lactone contain cyclic ester standard reagent detect presence reduce sugar tollens reagent benedict reagent tollens reagent freshly prepare start silver nitrate agno3 mix naoh produce silver oxide ag2o silver oxide dissolve ammonia produce ag(nh3)2]+ actual tollens reagent tollens reagent reduce produce silvery mirror aldehyde present benedict reagent aldehyde group aldose readily oxidize indicate red precipitate cu2o demonstrate figure 4.12 test specifically glucose utilize enzyme glucose oxidase react reduce sugar powerful oxidize agent dilute nitric acid oxidize aldehyde primary alcohol c-6 carboxylic acid figure 4.12 positive test aldose benedict reagent aldoses react form copper(i oxide ketone react slowly interesting phenomenon ketose sugar reduce sugar positive tollens benedict test ketone oxidize directly carboxylic acid tautomerize form aldose basic condition keto enol shift aldose form react tollens benedict reagent form carboxylic acid tautomerization refer rearrangement bond compound usually move hydrogen form double bond case ketone group pick hydrogen double bond move adjacent carbon result enol compound double bond alcohol group reduced sugar play essential role human biochemistry aldehyde group aldose reduce alcohol compound consider alditol deoxy sugar hand contain hydrogen replace hydroxyl group sugar know sugar d-2 deoxyribose carbohydrate find dna carbohydrate hydroxyl group able participate reaction carboxylic acid carboxylic acid derivative form ester show figure 4.13 figure 4.13 esterification glucose acetic anhydride carboxylic acid body esterification similar phosphorylation glucose phosphate ester form phosphorylation glucose extremely important metabolic reaction glycolysis phosphate group transfer atp glucose phosphorylate glucose form adp show figure 4.14 hexokinase glucokinase liver pancreatic β islet cell catalyze reaction

figure 4.14 phosphorylation glucose action hexokinase glucokinase key glycolytic enzyme discuss chapter 9 mcat biochemistry review

hemiacetal react alcohol form acetal anomeric hydroxyl group transform alkoxy group yield mixture α- β- acetal water leave group result carbon oxygen co bond call glycosidic bond acetal form glycoside example reaction glucose ethanol show figure 4.15 equivalent reaction happen hemiketal form ketal figure 4.15 glycosidic linkage formation hemiacetal hemiketal sugar react alcohol acidic condition form acetal ketal disaccharide polysaccharide form result glycosidic bond monosaccharide glycoside derive furanose ring refer furanoside derive pyranose ring call pyranoside note glycoside formation dehydration reaction break glycosidic bond require hydrolysis mcat concept check 4.3 assess understanding material question 1 explain difference esterification glycoside formation 2 purpose tollens reagent benedict reagent serve differ 3 metabolic standpoint sense carbohydrate oxidize reduce purpose process 4.4 complex carbohydrate chapter 4.4 able compare starch glycogen cellulose predict comparative solubility different starch form base structure recognize important biologically relevant disaccharide complex carbohydrate include carbohydrate sugar molecule link disaccharide oligosaccharide discuss previously monosaccharide react alcohol form acetal glycosidic bond form hydroxyl group monosaccharide result formation disaccharide show figure 4.16 disaccharide formation hydroxyl group anomeric carbon react hydroxyl sugar form acetal ketal 1,2 1,4 1,6 glycosidic linkage formation α- β glycosidic linkage nonspecific anomeric carbon cyclic sugar react hydroxyl group sugar molecule linkage name configuration anomeric carbon number hydroxyl contain carbon involve linkage example α-1,6 glycosidic bond formation d glucose molecule α anomeric carbon glucose c-1 attach c-6 second glucose note second glucose α- β anomer event glycosidic bond form anomeric carbon specify example bond form anomeric carbon α- d glucose molecule term α α-1,1 linkage demonstrate figure 4.17 trehalose example disaccharide α α-1,1 linkage α anomeric carbon glucose molecule combination monosaccharide link glycosidic bond result formation different

disaccharide instance glucose molecule link α-1,4 glycosidic bond call maltose glucose molecule join β-1,4 linkage call cellobiose discuss disaccharide real world context important sugar

linkage call cellobiose discuss disaccharide real world context important sugar sucrose lactose maltose disaccharide commonly produce cell enzymatic activity molecular structure linkage highlight figure 4.18 figure 4.18 important disaccharide sucrose glucose α-1,2 fructose b lactose galactose β-1,4 glucose c maltose glucose α-1,4 glucose polysaccharide long chain monosaccharide link glycosidic bond glucose frequently encounter monosaccharide polysaccharide compose entirely glucose monosaccharide refer homopolysaccharide polymer type monosaccharide consider heteropolysaccharide important biological polysaccharide cellulose starch glycogen polysaccharide different function compose monosaccharide d glucose polysaccharide differ configuration anomeric carbon position glycosidic bond result notable biological difference glycosidic bonding occur multiple hydroxyl group monosaccharide polymer formation linear branched branching happen internal monosaccharide polymer chain form glycosidic bond allow branch formation close look key glycogen synthesis glycogenolysis chapter 9 mcat biochemistry review cellulose main structural component plant homopolysaccharide cellulose chain β d glucose molecule link β-1,4 glycosidic bond hydrogen bond hold actual polymer chain support human able digest cellulose lack cellulase enzyme responsible hydrolyze cellulose glucose monomer cellulose find fruit vegetable serve great source fiber diet draw water gut cellulase produce bacteria find digestive tract certain animal termite cow goat enable digest cellulose portion cellulose chain see figure 4.19 figure 4.19 cellulose structure cellulose polymer 1,4 link β d- starch polysaccharide digestible human link α d glucose monomer plant predominantly store starch amylose linear glucose polymer link α-1,4 glycosidic bond type starch amylopectin start type linkage amylose exhibit contain branch α-1,6 glycosidic bond iodine know reagent test presence starch fit inside helix conformation amylose typically make form starch iodine

complex structure amylose depict figure 4.20 figure 4.20 starch structure starch polymer 1,4 link α d glucose contrast cellulose starch digestibility exemplify specificity enzyme slight 109.5 ° rotation anomeric carbon form β linkage instead α- linkage molecule indigestible enzyme human d glucose polymer enzyme specificity discuss chapter 2

enzyme human d glucose polymer enzyme specificity discuss chapter 2 mcat biochemistry review starch like amylose amylopectin break enzyme body source energy amylose degrade α amylase β amylase β amylase cleave amylose nonreducing end polymer end acetal yield maltose α amylase cleave randomly chain yield short polysaccharide chain maltose glucose amylopectin highly branched debranche enzyme help degrade polysaccharide chain disease know glycogen storage disease gsd type vi condition characterize deficiency liver glycogen phosphorylase patient disease break glycogen liver hepatomegaly swollen liver hypoglycemia low blood sugar meal use glycogen maintain blood glucose concentration glycogen carbohydrate storage unit animal similar starch α-1,6 glycosidic bond approximately 10 glucose molecule amylopectin approximately 25 make highly branched compound branching optimize energy efficiency glycogen make soluble solution allow glucose store body branching pattern allow enzyme cleave glucose glycogen glycogen phosphorylase work site molecule simultaneously glycogen phosphorylase function cleave glucose nonreducing end glycogen branch phosphorylate produce glucose 1 phosphate play important role mcat concept check 4.4 assess understanding material question 1 form starch soluble solution 2 glycogen amylopectin polymer experience high rate enzyme activity enzyme cleave chapter examine depth unique characteristic carbohydrate monosaccharide basic form carbohydrate term human biochemistry typically range seven carbon atom classify monomer depend number chiral center present tell number potential stereoisomer open chain structure easily represent fischer projection diagram sugar tend exist ring form biological system haworth projection depict dimensional structure important reaction monosaccharide undergo redox reaction esterification glycoside formation particularly glycoside formation result formation

disaccharide polysaccharide form glycosidic bonding carbohydrate polymer cellulose starch glycogen commonly find nature glycogen primary storage form glucose human animal unique branch structure allow rapid access glucose store body primary energy storage molecule glycogen triacylglycerols pro con glycogen rapidly mobilize require water hydration increase weight triacylglycerol serve long term repository energy time utilize chapter turn attention triacylglycerol lipid

term repository energy time utilize chapter turn attention triacylglycerol lipid structure cell signaling review content test knowledge critical thinking skill complete test like passage set online resource carbohydrate organize number carbon atom common name frequently refer sugar glucose fructose galactose carbon sugar triose carbon sugar tetrose sugar aldehyde oxidized group aldose sugar ketone oxidized group ketose nomenclature sugar base d- l form glyceraldehyde sugar highest number chiral carbon oh group right fischer projection d sugar oh left l sugar d- l form sugar enantiomer diastereomer nonsuperimposable configuration molecule similar connectivity differ chiral carbon include epimer anomer epimer subtype diastereomer differ exactly anomer subtype epimer differ anomeric cyclic sugar molecules cyclization describe ring formation carbohydrate ring form anomeric carbon α- β- anomeric carbon new chiral center form ring closure carbon contain carbonyl straight- α anomer oh anomeric carbon trans free β anomer oh anomeric carbon cis free haworth projection provide good way represent three- cyclic compound undergo mutarotation shift anomeric form straight chain form monosaccharide single carbohydrate unit glucose commonly observe monomer undergo main reaction oxidation reduction esterification glycoside aldoses oxidize aldonic acid reduce alditol sugar oxidize reduce agent reduce sugar detect react tollens sugar h replace oh group term deoxy sugar react carboxylic acid derivative form ester esterification phosphorylation similar reaction phosphate ester form transfer phosphate group atp sugar glycoside formation basis build complex carbohydrate require anomeric carbon link disaccharide form result glycosidic bonding monosaccharide subunit

polysaccharide form repeat monosaccharide polysaccharide glycosidic bonding common disaccharide include sucrose glucose α-1,2 fructose lactose galactose β-1,4 glucose maltose glucose α-1,4- polysaccharide play role cellulose main structural component plant cell wall main source fiber human diet starch amylose amylopectin function main energy storage form plant glycogen function main energy storage form

animal answer concept check 1 aldopentose ketohexose 3 d glucose epimer d mannose c-2 d allose c-3 d- galactose c-4 d stereoisomer enantiomer glucose l glucose enantiomer d glucose 1 hemiacetal hemiketal formation carbonyl carbon chiral term anomeric carbon orientation oh substituent carbon determine sugar molecule α- β anomer 1 esterification reaction hydroxyl group react carboxylic acid carboxylic acid derivative form ester glycoside formation refer reaction alcohol hemiacetal hemiketal group sugar yield alkoxy group 2 tollens reagent benedict reagent detect presence reduce sugar tollens reagent reduce produce silvery mirror aldehyde present benedict reagent indicate reddish precipitate cu2o. 3 make sense carbohydrate oxidize reduce group case aerobic metabolism require reduce form electron carrier facilitate process oxidative phosphorylation carbohydrate primary energy source oxidize 1 amylopectin

soluble solution amylose branched structure highly branched structure amylopectin decrease intermolecular bonding polysaccharide polymer increase interaction surround solution 2 glycogen high rate enzymatic branch cleavage contain significantly branching amylopectin science mastery assessment glucose aldohexose mean aldehyde group carbon give information b eliminate aldose sugar nonterminal carbon chiral glucose chiral center mention c number stereoisomer possible chiral molecule 2n n number chiral carbon glucose chiral center 24 = 16 possible stereoisomer epimer monosaccharide diastereomer differ configuration carbon diastereomer epimer different chemical physical property optical activity relation enantiomer equal opposite optical activity d statement apply epimer aldonic acid form

aldehyde group reduce sugar reduce compound oxidized process mutarotation interconversion anomer compound enantiomerization racemization c d relate enantiomerization formation mirror image optically invert form compound racemization move solution equal concentration enantiomer glycosidation addition sugar compound ketose sugar undergo tautomerization rearrangement bond undergo keto enol shift form aldose allow act reduce sugar ketone group oxidize anomerization mention c refer ring closure monosaccharide create anomeric carbon glucose react methanol acid catalysis hemiacetal convert acetal replacement anomeric hydroxyl group alkoxy group result type acetal know glycoside correspond b choice alkoxy group wrong carbon carbon β amylase cleave amylose nonreducing end polymer yield maltose exclusively α amylase cleave amylose chain yield short polysaccharide maltose glucose debranche enzyme c remove oligosaccharide branch glycogen starch glycogen phosphorylase d yield glucose 1 phosphate

start draw haworth projection recall group right fischer projection haworth projection group left draw chair structure oxygen right corner label carbon ring 1 5 start oxygen move clockwise ring draw line axial substituent alternate ring remember start anomeric c- 1 carbon axial substituent point start fill substituent substituent position anomeric carbon skip oh group c-2 c-4 point downward oh group c-3 point upward c β anomer d glucose match hydroxyl group anomeric carbon β anomer equatorial create nonbonded strain α anomer hydroxyl group anomeric carbon axial position glycogen amylopectin polysaccharide form demonstrate branch structure make similar term linkage glycogen amylopectin use α-1,4 α-1,6 linkage cellulose use β-1,4 linkage amylose contain α-1,6 linkage maltose cellobiose glucose subunit maltose digestible human β glycosidic linkage cellobiose cleave human body solution hemiacetal ring glucose break open spontaneously form ring break bond rotation occur c-1 c-2 produce α- β anomer reaction give question depict mutarotation glucose incorrect reactant aldehyde product b incorrect hemiketal oh group or group r group addition hemiketal form ketone start reactant aldehyde finally d incorrect glycosidic bond start

reactant galactose diastereomer glucose stereochemistry c-4 count aldehyde reverse able identify c-4 answer question look glucose molecule b c d identical stereochemistry c-4 andersen disease glycogen branched normal induce low solubility glycogen branch reduce interaction adjacent chain glycogen encourage interaction aqueous environment small number branch mean glycogen phosphorylase few terminal glucose monomer act make enzyme activity slow normal overall finally branch density glucose monomer high total glucose store low normal glycogen synthase function normally expect normal α-1,4 linkage glycogen individual andersen disease α-1,6 monosaccharide exist hemiacetal hemiketal depend aldose ketose monosaccharide cyclic form anomeric carbon attach oxygen ring hydroxyl group hemiacetal hemiketal acetal ketal require oh group convert consult online resource additional practice equation remember 4.1 number stereoisomer common backbone = 2n biochemistry

equation remember 4.1 number stereoisomer common backbone = 2n biochemistry chapter 9 carbohydrate metabolism biochemistry chapter 10 carbohydrate metabolism ii organic chemistry chapter 1 organic chemistry chapter 2 organic chemistry chapter 5 organic chemistry chapter 6 aldehyde ketone lipid structure function pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review

question get correct ensure thinking match explanation review concept summary end chapter 1 follow type glycolipid 2 saponification a. triacylglycerol undergo condensation reaction b. triacylglycerol undergo ester hydrolysis c. fatty acid salt produce strong acid d. fatty acid salt bind albumin 3 follow well describe structure steroid a. cyclopentane ring cyclohexane ring b. cyclohexane ring cyclopentane ring c.

carbon ring differ structure steroid d. cyclic carbon ring functional group 4 soap bubble form fatty acid salt organize c. phospholipid bilayer d. hydrogen bond 5 steroid hormone steroid i. specific high affinity receptor ii travel bloodstream endocrine gland distant iii affect gene transcription bind directly dna a. b. iii c. ii d. iii 6 triacylglycerol human body energy a. highly hydrated store lot b. short fatty acid chain easy access c. carbon atom fatty acid chain highly reduce yield energy oxidation d. polysaccharide actually well energy storage form dissolve body 7 follow correct fat soluble vitamin i. vitamin e important calcium regulation ii vitamin d protect cancer biological iii vitamin k necessary posttranslational introduction iv vitamin metabolize retinal important sight a. iii b. ii c. iii iv d. ii iii iv 8 following true amphipathic molecule a. form protective sphere solvent hydrophobic molecule interior hydrophilic molecule exterior b. fatty acid chain polar head group c. important formation phospholipid bilayer soap bubble d. glycerol base 9 follow true sphingolipid i. phospholipid ii contain sphingosine backbone iii phosphodiester glycosidic linkage polar head group a. b. iii c. ii iii d. ii iii 10 follow statement saturation false a. describe number double triple bond fatty b. determine property membrane c. saturated fatty acid fluid solution d. fully saturate fatty acid single bond 11 follow true glycerophospholipid a. glycerophospholipid sphingolipid depend bond head group b. glycerophospholipid merely subset phospholipid c. glycerophospholipid abo blood typing d. glycerophospholipid glycerol polar head group fatty acid tail 12 follow statement terpene false a. terpene strongly scent molecule serve protective function b. terpene steroid precursor c. triterpene isoprene moiety 15 carbon d. terpene plant insect 13 follow true cholesterol a. cholesterol increase membrane fluidity cell b. cholesterol steroid

hormone precursor c.

cholesterol precursor vitamin produce d. cholesterol interact hydrophobic tail 14 follow statement prostaglandin a. prostaglandin regulate synthesis camp b. prostaglandin synthesis inhibit nsaid c. prostaglandin affect pain inflammation smooth muscle d. prostaglandin endocrine hormone like steroid 15 statement wax false a. wax generally melting point room b.

wax produce plant insect consume human c. wax protect dehydration parasite d. wax ester long chain fatty acid long chain lipid structure function chapter 5.1 structural lipid 5.2 signaling lipid terpene terpenoid 5.3 energy storage free fatty acid saponification content chapter relevant 3 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism 3a structure function nervous endocrine system way system coordinate organ system 5d structure function reactivity biologically relevant molecule beer human eye sperm whale common lipid play key role interesting characteristic taste smell hop come lipid call terpene ability human eye respond light rely heavily retinal lipid derive vitamin a. sperm whale use enormous reservoir spermaceti dive depth kilometer hunt giant squid spermaceti lipid density change dramatically temperature effectively allow sperm whale adjust density depth stay submerged have constantly lipid class characterize insolubility water solubility nonpolar organic solvent aside share feature lipid diverge dramatically structural organization biological function serve vital structural signaling energy storage role chapter explore structural functional characteristic major category lipid test mcat structural building block investigate phospholipid sterol vesicle liposome membrane come signaling note lipid serve multiple role enzyme cofactor light absorb pigment intracellular messenger hormone finally lipid workhorse energy storage give bang metabolic buck weight 5.1 structural lipid chapter 5.1 able recall major structural trait phospholipid glycerophospholipid recognize membrane lipid structure contribute overall membrane structure distinguish type sphingolipid identify polar nonpolar region lipid lipid

major component phospholipid bilayer important structural part cell unique ability phospholipid form bilayer allow cell function separate cell interior surround environment close look structure role phospholipid glycerophospholipid sphingolipid finally review gross structural characteristic unique class call wax membrane component amphipathic molecule mean hydrophilic hydrophobic region membrane lipid polar head hydrophilic region fatty acid tail hydrophobic region place aqueous solution molecule spontaneously form structure allow

hydrophobic region place aqueous solution molecule spontaneously form structure allow hydrophobic region group internally hydrophilic region interact water lead formation structure include liposome micelle phospholipid bilayer show figure 5.1 figure 5.1 membrane lipid form structure aqueous solution phospholipid large component phospholipid bilayer nonphospholipid like glycolipid play role important process like cell recognition signaling discuss chapter 3 mcat biochemistry phospholipid contain following element phosphate alcohol comprise polar head group join hydrophobic fatty acid tail phosphodiester linkage fatty acid attach backbone form hydrophobic tail region phospholipid classify accord backbone molecule build example glycerol carbon alcohol form phosphoglyceride glycerophospholipid sphingolipid sphingosine backbone important thing note sphingolipid phospholipid describe later chapter lipid property category lipid determine degree saturation fatty acid chain functional group fatty acid chain bond thing lipid share common tail compose long chain fatty acid hydrocarbon chain vary degree saturation length property determine overall molecule behave fully saturated fatty acid tail single bond carbon atom consider saturated bond atom π bond saturated fatty acid butter great van der waals force stable overall structure form solid room temperature unsaturated fatty acid include double bond double bond introduce kink fatty acid chain make difficult stack solidify unsaturated fat like olive oil tend liquid room temperature rule apply phospholipid bilayer phospholipid unsaturated fatty acid tail fluid region phospholipid bilayer phospholipid glycerophospholipid sphingolipid variety fatty acid tail different head group determine property surface cell

membrane section glycerophospholipid sphingolipid focus polar head group different phospholipid mention section glycerophospholipid phospholipid phospholipid glycerophospholipid glycerophospholipid phosphoglyceride specifically phospholipid contain glycerol backbone bond ester linkage fatty acid phosphodiester linkage highly polar head group show figure 5.2 head group determine membrane surface property glycerophospholipid name accord head group example phosphatidylcholine glycerophospholipid choline head group phosphatidylethanolamine ethanolamine head group head group positively charge negatively charge neutral membrane surface property molecule important cell recognition

negatively charge neutral membrane surface property molecule important cell recognition signaling binding subtype fatty acid chain vary length saturation result astounding variety function focus active scientific research figure 5.2 structure glycerophospholipid x denote head group connect glycerol backbone phosphodiester linkage experiment blood transfusion record early 17th century blood typing develop 20th century advent abo rh factor blood typing system blood transfusion successfully administer patient hemophilia clotting disorder cause significant bleeding surgery number application blood typing make possible life save blood transfusion risk potentially fatal acute hemolytic reaction abo blood typing system base cell surface antigen red blood cell cell- surface antigen know sphingolipid like glycerophospholipid sphingolipid site biological recognition cell surface bond head group fatty acid sphingolipid sphingosine sphingoid sphingosine like backbone oppose glycerol backbone glycerophospholipid molecule long chain nonpolar fatty acid tail polar head group sphingolipid phospholipid contain phosphodiester linkage sphingolipid contain glycosidic linkage sugar lipid link sugar term glycolipid sphingolipid divide major subclass differ head group simple sphingolipid ceramide single hydrogen atom head group sphingomyelin major class sphingolipid phospholipid sphingophospholipid molecule phosphocholine phosphoethanolamine head group contain phosphodiester bond sphingomyelin head group

net charge imply sphingomyelin major component plasma membrane cell produce myelin oligodendrocyte schwann cell insulate sheath axon sphingolipid head group compose sugar bond glycosidic linkage consider glycolipid mention specifically glycosphingolipid molecule phospholipid contain phosphodiester linkage glycosphingolipid find mainly outer surface plasma membrane classify cerebroside globoside cerebroside single sugar globoside molecule refer neutral glycolipid net charge sphingolipid accumulation associate numerous pathological condition sphingomyelin find myelin sheath help signal transduction accumulation sphingomyelin result lack enzyme sphingomyelinase result niemann pick disease symptom include intellectual disability seizure sulfatide sulfated cerebroside associate alzheimer disease final group compose complex sphingolipid ganglioside glycolipid polar head group compose oligosaccharide n acetylneuraminic acid nana call sialic acid molecule terminus negative charge molecule consider glycolipid glycosidic linkage

acid molecule terminus negative charge molecule consider glycolipid glycosidic linkage phosphate group ganglioside play major role cell interaction recognition signal transduction summary different type sphingolipid provide figure 5.3 figure 5.3 type sphingolipids ceramide single hydrogen atom head group sphingomyelin phosphodiester linkage phospholipid cerebroside sugar globoside picture

multiple sugar ganglioside oligosaccharide terminal sialic acid ganglioside gangly sphingolipid complex structure functional group oligosaccharide nana direction wax ester long chain fatty acid long chain alcohol expect form pliable solid room temperature generally think wax biologically function protection plant animal plant wax secrete surface coating prevent excessive evaporation protect parasite animal wax secrete prevent dehydration water repellant skin feather dry lubricant example carnauba wax leave copernicia prunifera palm coat candy wax car bee secrete wax construct shelter show figure 5.4 figure 5.4 honeycomb structure beeswax solid plastic nature wax contain ester long alkyl chain permit use structure

building mcat concept check 5.1 assess understanding material question 1 component membrane lipid contribute structural role membrane component contribute function 2 difference sphingolipid phospholipid 3 main type sphingolipid characteristic phospholipid glycolipid 4 happen amphipathic molecule place nonpolar solvent aqueous solution 5.2 signal lipid chapter 5.2 able recall structural feature terpene steroid prostaglandin differentiate steroid steroid hormone connect prostaglandin symptom associate presence pain inflammation explain importance fat soluble vitamin d e k remember chapter 2 mcat biochemistry review coenzyme organic nonprotein factor bind enzyme require normal activity addition passive role structure lipid perform active role cellular signaling coenzyme lipid serve coenzyme electron transport chain glycosylation reaction lipid function hormone transmit signal long distance intracellular messenger respond extracellular signal certain special lipid conjugate double bond absorb light extremely important vision act pigment plant animal focus important category signal lipid steroid prostaglandin fat soluble vitamin important precursor like terpene terpene terpenoid delve detail downstream lipid signaling molecule turn attention terpene odiferous chemical metabolic precursor steroid lipid signaling molecule varied independent function terpene class lipid build isoprene c5h8 moiety share common structural pattern carbon group multiple show figure 5.5 figure 5.5 isoprene terpenes produce mainly plant insect generally strongly scented case pungent chemical plant insect protective mechanism

generally strongly scented case pungent chemical plant insect protective mechanism strong smell turpentine derivative resin come monoterpene resin major component terpene actually original discovery turpentine terpene primary component pleasant smell essential oil extract plant terpene group accord number isoprene unit present single terpene unit contain isoprene unit monoterpene c10h16 abundant essential oil turpentine describe contain isoprene unit sesquiterpene sesqui mean a- half contain isoprene unit diterpene contain vitamin discuss later chapter diterpene retinal visual pigment vital sight derive triterpene

isoprene unit convert cholesterol steroid discuss later chapter carotenoid like β carotene lutein tetraterpene isoprene unit natural rubber isoprene chain 1000 5000 unit long consider terpenoid refer isoprenoid derivative terpene undergo oxygenation rearrangement carbon skeleton compound modify terpene addition extensive variety functional group terpenoid share similar characteristic terpene term biological precursor function aromatic property contribute steroid biosynthesis scent cinnamon eucalyptus camphor turmeric numerous compound terpenoid name analogous fashion diterpenoid derive isoprene unit terpene terpenoid precursor molecule feed biosynthesis pathway produce important product include steroid widespread effect biological function vitamin vital sight term steroid probably bring mind muscle bind body builder home run hit professional athlete science mcat steroid refer infamously abuse anabolic steroid broad class molecule define structure structurally steroid show figure 5.6 metabolic derivative terpene different lipid mention early chapter structure function steroid characterize have cycloalkane ring fuse cyclohexane cyclopentane steroid functionality determine oxidation status ring functional group carry important note large number carbon hydrogen steroid nonpolar like lipid mention figure 5.6 common steroid structure hormone type include steroid hormone focus chapter 5 kaplan mcat mind terminology difference steroid steroid hormone steroid refer group define particular chemical structure demonstrate steroid hormone steroid act hormone mean secrete endocrine gland bloodstream travel protein carrier distant site bind specific high affinity receptor alter gene expression level steroid hormone potent biological signal regulate gene

gene expression level steroid hormone potent biological signal regulate gene expression metabolism affect wide variety biological system low concentration important steroid hormone include testosterone estrogen cortisol aldosterone discuss chapter 5 mcat biology review plant like animal use steroid signal cholesterol produce de novo absorb dietary source hypercholesterolemia high cholesterol condition strongly correlate heart disease combination cholesterol source excessive accumulation cholesterol arterial wall result atherosclerosis

hardening cholesterol show figure 5.7 steroid primary importance cholesterol major component phospholipid bilayer responsible mediate membrane fluidity cholesterol like phospholipid amphipathic molecule contain hydrophilic hydrophobic component interaction hydrophobic tail hydrophilic head phospholipid allow cholesterol maintain relatively constant fluidity cell membrane low temperature keep cell membrane solidify high temperature hold membrane intact prevent permeable cholesterol serve precursor important molecule include steroid hormone bile acid vitamin d. figure 5.7 cholesterol prostaglandin acquire think produce prostate gland determine produce cell body 20 carbon molecule unsaturated carboxylic acid derive arachidonic acid contain carbon ring act paracrine autocrine signaling molecule tissue biological function prostaglandin regulate synthesis cyclic adenosine monophosphate camp ubiquitous intracellular messenger turn camp mediate action hormone downstream effect prostaglandin include powerful effect smooth muscle function influence sleep wake cycle elevation body temperature associate fever pain nonsteroidal anti inflammatory drug nsaids like aspirin inhibit enzyme cyclooxygenase cox aid production prostaglandin vitamin essential nutrient adequately synthesize body consume diet vitamin commonly divide water soluble lipid soluble category lipid- soluble vitamin accumulate store fat excess water soluble vitamin excrete urine fat soluble vitamin include d e k.

important varied function vitamin carotene unsaturated hydrocarbon important vision growth development immune function significant metabolite vitamin aldehyde form retinal component light sense molecular system human eye retinol storage form vitamin oxidize retinoic acid hormone regulate gene expression epithelial development vitamin d cholecalciferol consume form uv light drive reaction skin liver kidney vitamin d convert calcitriol 1,25-(oh)2d3 biologically active form vitamin d. calcitriol increase calcium phosphate uptake intestine promote bone production lack vitamin d result rickets condition see child characterize underdeveloped curved long bone impede growth way remember carotene remember carrot high vitamin eat carrot colloquially suggest improve vision remember

vitamin d regulate calcium remember frequently add milk order aid absorption calcium vitamin e characterize group closely relate lipid call tocopherol tocotrienol characterize substitute aromatic ring long isoprenoid chain characteristically hydrophobic tocopherol biological antioxidant aromatic ring react free radical destroy turn prevent oxidative damage important contributor development cancer aging vitamin k koagulation vitamin k actually group compound include phylloquinone k1 menaquinone k2 vitamin k vital posttranslational modification require form prothrombin important clotting factor blood aromatic ring vitamin k undergo cycle oxidation reduction formation prothrombin vitamin k require introduce calcium bind site calcium dependent anticoagulant warfarin work block recycling vitamin k cause deficiency lowering active vitamin k. patient take warfarin recommend stay away food contain high amount vitamin k green leafy vegetable mcat concept check 5.2 assess understanding material question 1 carbon diterpene 2 difference steroid steroid hormone 3 nsaid block prostaglandin production order reduce pain inflammation prostaglandin bring symptom 4 name function fat soluble vitamin 5.3 energy storage chapter 5.3 able explain energy optimally store fat sugar recall structure function triacylglycerol predict product saponification reaction triacylglycerol class lipid specifically energy storage body point view lipid general fantastic way store energy true major reason carbon atom fatty acid reduced sugar contain numerous

major reason carbon atom fatty acid reduced sugar contain numerous alcohol group result oxidation triacylglycerol yield twice energy gram carbohydrate make far energy dense storage mechanism compare polysaccharide like glycogen second triacylglycerol hydrophobic draw water require hydration stability help decrease weight especially comparison hydrophilic polysaccharide final perk vertebrate survive cold temperature like penguin polar bear arctic explorer layer lipid serve dual purpose energy storage insulation help retain body heat energy require maintain constant internal temperature triacylglycerol call triglyceride compose fatty acid bond ester linkage glycerol show figure 5.8 naturally occur triacylglycerol rare fatty acid

figure 5.8 triacylglycerol structure fatty acid palmitic acid oleic acid α linolenic acid overall compound nonpolar hydrophobic contribute insolubility water polar hydroxyl group glycerol component polar carboxylate fatty acid bond decrease polarity main method

energy storage body triacylglycerol adipose tissue carbohydrate glycogen method advantage disadvantage example glycogen offer access metabolic energy fast water- soluble form low energy density glycogen provide energy bit day contrast individual moderately obese 15 20 kg store triacylglycerol adipocyte draw fat store month take time mobilize energy triacylglycerol deposit observe cell oily droplet cytosol serve depot metabolic fuel recruit cell need additional energy divide survive fuel supply low special cell animal know adipocyte store large amount fat find primarily skin mammary gland abdominal cavity plant triacylglycerol deposit find seed oil triacylglycerol travel bidirectionally bloodstream liver adipose tissue physical characteristic triacylglycerol primarily determine saturation unsaturation fatty acid chain like phospholipid free fatty acids saponification free fatty acid unesterified fatty acid free carboxylate group body circulate blood bond noncovalently serum albumin fatty acid know soap produce process call saponification saponification ester hydrolysis triacylglycerol strong base traditionally base lye common sodium potassium hydroxide result basic cleavage fatty acid leave sodium salt fatty acid glycerol show figure 5.9 fatty acid salt know soap figure 5.9 saponification ester hydrolysis triacylglycerol lye naoh soap act surfactant surfactant lower surface tension surface liquid serve detergent emulsifier important soap work try combine aqueous solution oil vinegar olive oil salad dressing solution remain separate phase add soap phase appear combine single phase form colloid occur formation micelle tiny aggregate soap hydrophobic tail turn inward hydrophilic head turn outward shield hydrophobic lipid tail allow overall solvation

show figure 5.10 see early discuss figure 5.10 cross section micelle micelles organize aqueous solution force hydrophobic tail interior allow hydrophilic head interact water environment

saponification occur naturally slowly corpse oil painting triacylglycerol hydrolyze naturally occur basis corpse result process know adipocere grave wax biochemistry guide example expert sugar base fatty acid ester usually belong class non ionic surfactant possess desirable characteristic suitable different application consist sugar moiety act hydrophilic polar head link ester bond fatty acid chain act hydrophobic nonpolar tail increase interest develop advanced drug delivery system ester include enhancement skin penetration topic fatty acid ester sugar polar head group matter possible usage drug delivery transmucosal permeability study aim investigate relationship structure activity series lactose ester derivative enzymatically synthesize saturated fatty acid different chain length c10 caprate c12 laurate c14 myristate purpose examine structure lactose fatty ester affect activity solution surfactant water prepare vary concentration surface tension measure k100- krüss force tensiometer platinum cylindrical rod probe wet length 1.6 mm room temperature result plot figure 1 examine effect lactose surfactant variation mitochondrial membrane potential ratiometric dye jc-1 assay employ jc-1 dye readily permeate cell plasma membrane specifically accumulate active mitochondrion potential dependent way present mitochondria dye form j aggregate emit fluorescence wavelength distinct wavelength dye present cytoplasm remain monomeric form mitochondrial depolarization dissipation negative charge mitochondrial membrane mitochondrial disruption indicate decrease j aggregate monomer intensity ratio represent arbitrary value mitochondrial membrane potential effect different concentration lactose surfactant mitochondrial membrane potential report figure 2

measure surface tension plot fig 1 measure presence decrease ratio indicate mitochondria iv type surfactant x axis dv surface tension trend line curve great number carbon low require decrease ivs type surfactant x axis trend line roughly negative s- shaped great number carbon low require decrease adapt lucarini s. fagioli l. cavanagh r. liang w. perinelli d. r. campana m. stolnik s. duranti a. 2018 synthesis structure activity relationship vitro toxicity profile lactose base fatty acid monoester possible drug permeability enhancer

researcher examine cell viability future experiment surfactant expect cytotoxic question ask predict outcome future experiment indicate need understand result current experiment order predict future event paragraph purpose passage discuss surfactant work function number carbon attach sugar head group outside knowledge want recall surfactant polar head group fatty acid tail form micelle allow nonpolar compound like drug dissolve hydrophobic interior surface expose portion micelle water soluble question specifically ask cytotoxic effect surfactant ignore figure 1 information surface tension tell surfactant cytotoxic quickly assess figure useful important skill test day figure valuable answer question measure variable figure 2 j- aggregate monomer ratio passage tell drop ratio indicate potential mitochondrial membrane disrupt know content background proton gradient build inner mitochondrial membrane order atp synthesize proton gradient cell quickly die lack energy possible amphiphilic nature surfactant poke hole inner mitochondrial membrane allow proton gradient dissipate move atp synthase figure 2 show increase carbon number fatty acid tail correspond decrease concentration require dissipate mitochondrial potential predict long fatty acid tail link great cytotoxic activity specifically expect lactose palmitate cytotoxic surfactant study current experiment nonpolar compound dissolve hydrophobic interior water- soluble micelle mean cleaning agent dissolve water- soluble water insoluble mess wash away micelle important body absorption fat soluble vitamin d e k complicated lipid lecithin fatty acid bile salt secrete gallbladder form micelle increase surface area available lipolytic enzyme mcat concept check 5.3 assess understanding material question 1 human body store spare energy human body store energy sugar 2 describe structure function triacylglycerol 3 bond break saponification 4 soap appear dissolve water fact important chapter examine myriad biological function perform lipid learn structural function lipid look phospholipid primary component phospholipid bilayer membrane lipid make way terpene look structure function signal lipid examine steroid hormone particular look fat soluble vitamin downstream function body finally summarize energy

look fat soluble vitamin downstream function body finally summarize energy storage form triacylglycerol apply acid base chemistry knowledge formation soap chapter turn attention final class biomolecule nucleic acid review content test knowledge critical thinking skill complete test like passage set online resource lipid insoluble water soluble nonpolar organic solvent phospholipid amphipathic form

bilayer biological contain hydrophilic polar head group hydrophobic head group attach phosphodiester linkage interact environment determine function phospholipid saturation fatty acid tail determine fluidity membrane saturated fatty acid fluid unsaturated one fatty acid form structural thickness glycerophospholipid phospholipid contain glycerol sphingolipid contain sphingosine sphingoid backbone sphingolipid phospholipid contain phosphodiester bond term sphingophospholipid sphingomyelin major class sphingophospholipid contain phosphatidylcholine phosphatidylethanolamine head group major component myelin sheath glycosphingolipid attach sugar moiety instead phosphate group cerebroside sugar connect sphingosine globoside ganglioside contain oligosaccharide terminal n acetylneuraminic acid nana call sialic acid wax contain long chain fatty acid esterify long chain alcohol protection evaporation parasite plant terpene odiferous steroid precursor isoprene five- terpene unit monoterpene contain isoprene unit terpenoid derive terpene oxygenation backbone rearrangement similar odorous characteristic steroid contain cyclohexane ring cyclopentane ring oxidation state functional group vary steroid hormone high affinity receptor work low concentration affect gene expression metabolism cholesterol steroid important membrane fluidity stability serve precursor host molecule prostaglandin autocrine paracrine signal molecule regulate camp level powerful effect smooth muscle contraction body temperature sleep wake cycle fever pain fat soluble vitamin include vitamin d e k. vitamin carotene metabolize retinal vision retinoic acid gene expression epithelial development vitamin d cholecalciferol metabolize calcitriol kidney regulate calcium phosphorus homeostasis intestine

increase calcium phosphate absorption promote bone formation deficiency vitamin d cause vitamin e tocopherol act biological antioxidant aromatic ring destroy free radical prevent oxidative damage vitamin k phylloquinone menaquinone important formation prothrombin clotting factor perform posttranslational modification number protein create triacylglycerol triglyceride prefer method store energy long term use contain glycerol attach fatty acid ester bond fatty acid usually vary triacylglycerol carbon atom lipid reduced carbohydrate give twice energy gram oxidation triacylglycerol hydrophobic hydrate body water carry additional water weight animal cell specifically storage large triacylglycerol deposit call adipocyte free fatty acid unesterified fatty

large triacylglycerol deposit call adipocyte free fatty acid unesterified fatty acid travel bloodstream salt free fatty acid soap synthesize saponification ester hydrolysis triacylglycerol strong base like sodium potassium hydroxide soap act surfactant form micelle micelle dissolve lipid soluble molecule fatty acid core wash away water shell carboxylate head group answer concept check

1 membrane lipid amphipathic hydrophilic head hydrophobic tail allow formation bilayer aqueous solution fatty acid tail form bulk phospholipid bilayer play predominantly structural role hand functional difference membrane lipid determine polar head group constant exposure exterior environment phospholipid bilayer remember inside outside cell degree unsaturation fatty acid tail play small role function 2 difference bond sphingosine backbone head group phosphodiester bond phospholipid note phospho prefix nonphospholipid sphingolipid include glycolipid contain glycosidic linkage sugar sugar mono- polysaccharide oligosaccharide n acetylneuraminic acid 4 nonpolar solvent opposite happen polar solvent like water hydrophilic polar molecule sequester inside nonpolar hydrophobic molecule find exterior expose 1 diterpene 20 carbon molecule backbone terpene unit isoprene unit carbon 2 steroid define structure include cyclohexane ring cyclopentane ring steroid hormone molecule

class function hormone mean travel bloodstream active low concentration high affinity receptor affect gene expression metabolism 3 prostaglandin regulate synthesis camp involve pathway include drive pain inflammation retinal vision retinoic acid epithelial development calcitriol calcium phosphate regulation antioxidant aromatic ring k phylloquinone posttranslational modification prothrombin addition calcium bind site protein 1 human body store energy glycogen triacylglycerols triacylglycerol prefer carbon reduce result large energy yield unit weight addition hydrophobic nature triacylglycerol need carry extra weight hydration 2 triacylglycerol call triglyceride compose glycerol backbone esterify fatty acid energy 3 ester bond triacylglycerol break form glycerol molecule salt fatty acid soap 4 soap appear dissolve water amphipathic free fatty acid salt form micelle hydrophobic fatty acid tail center carboxylate group face outward water fat soluble particle dissolve inside micelle soap water solution wash away water soluble compound freely dissolve science mastery assessment glycolipid contain sugar moiety connect backbone sphingomyelin glycolipid phospholipid class phosphatidylcholine phosphatidylethanolamine head group contain phosphodiester glycosidic bond saponification ester hydrolysis triacylglycerol strong base like sodium potassium hydroxide form glycerol fatty acid salt condensation reaction cleavage reaction

hydroxide form glycerol fatty acid salt condensation reaction cleavage reaction fatty acid travel body bond serum albumin d unrelated process saponification basic backbone steroid structure contain cyclohexane ring cyclopentane ring oxidation status ring vary different steroid overall structure c fatty acid salt micelle responsible formation soap bubble phospholipid form bilayer c fatty acid soap free fatty acid phospholipid steroid hormone produce endocrine gland travel bloodstream bind high affinity receptor nucleus hormone receptor bind dna hormone receptor complex hormone triacylglycerol highly hydrophobic highly hydrated add extra weight water hydration take away energy density molecule eliminate fatty acid chain produce twice energy polysaccharide oxidation highly reduce fatty

acid chain vary length vitamin metabolize retinal important sight vitamin d metabolize calcitriol important calcium regulation vitamin e tocopherol biological antioxidant vitamin k necessary introduction calcium bind site posttranslational modification prothrombin phospholipid amphipathic fatty acid salt amphipathic molecule spherical form hydrophobic molecule interior aqueous solution opposite true nonpolar solvent b describe phospholipid sphingolipid d describe triacylglycerol phospholipid group include fatty acid sphingolipid phosphodiester bond phospholipid glycosidic linkage glycolipid sphingolipid sphingosine backbone statement ii related sphingoid compound backbone instead saturated fatty acid fluid solution pack tightly form noncovalent bond result energy need disrupt overall structure glycerophospholipid subset phospholipid sphingomyelin glycerophospholipid sphingolipid contain glycerol backbone sphingosine sphingoid backbone eliminate sphingolipid abo blood typing system eliminate c glycerophospholipid polar head group glycerol fatty acid tail d triterpene isoprene moiety remember terpene unit contain isoprene unit 30 carbon backbone cholesterol steroid hormone precursor variable effect membrane fluidity depend temperature eliminate interact hydrophobic tail hydrophilic head membrane lipid nullify d precursor vitamin d vitamin produce skin uv drive reaction eliminate c prostaglandin paracrine autocrine signal molecule endocrine affect region close produce affect entire body think swelling happen bash knee desk knee swell discolored possibly bruise luckily entire body will swell

knee swell discolored possibly bruise luckily entire body will swell wax produce animal similar protective function cerumen earwax prime example human consult online resource additional practice biochemistry chapter 2 biochemistry chapter 8 biochemistry chapter 11 lipid amino acid metabolism biology chapter 5 endocrine system biology chapter 9 digestive system organic chemistry chapter 8 dna biotechnology pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep

complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 single strand nucleic acid nucleotide link a. hydrogen bond b. phosphodiester bond c.

ionic bond d. van der waals force 2 follow statement difference dna rna false a. cell dna double stranded rna single- b. dna use nitrogenous base thymine rna use uracil c. sugar dna deoxyribose sugar rna ribose d. dna strand replicate 5′ 3′ direction rna synthesize 3′ 5′ direction 3 following dna sequence high 4 following biomolecule likely contain 5 compound aromatic following true a. molecule cyclic b. molecule contain $4n + 2$ π electron c. molecule contain alternate single double bond d. molecule planar 6 following enzyme involve dna b. dna ligase c. rna polymerase 7 cdna well characterize a. cdna result dna transcript noncoding region b. cdna result reverse transcription process c. cdna abbreviation deoxycytosine d. cdna circular dna molecule form bacterial 8 follow statement polymerase chain reaction false a. human dna polymerase b. primer prepare complementary sequence dna interest c. repeated heating cooling cycle allow enzyme act specifically replace helicase d. cycle polymerase chain reaction double dna interest 9 endonuclease follow i. gene therapy ii southern blotting iii dna repair a. b. ii c. ii iii d. ii iii 10 prokaryotic dna differ eukaryotic dna i. prokaryotic dna lack nucleosome ii eukaryotic dna telomere iii prokaryotic dna replicate different dna polymerase iv eukaryotic dna circular restrict centromere a. b. iv c. ii iii d. ii iii 11 uracil exclude dna rna a. uracil difficult synthesize thymine b. uracil bind adenine strongly replication c. cytosine degradation result uracil d. uracil dna synthesis activator 12 tumor suppressor gene likely

result cancer a. loss function mutation b. gain function mutation d. proto oncogene formation

13 follow ethical concern gene sequencing a. gene sequencing invasive potential health risk thoroughly explain b. gene sequencing impact relative privacy concern raise c. gene sequencing inaccurate increase anxiety relate finding d. gene sequencing provide false negative result give false sense security 14 follow difference heterochromatin euchromatin a. euchromatin area transcribe heterochromatin silent b. heterochromatin tightly pack euchromatin c. heterochromatin stain darkly euchromatin stain d. heterochromatin find

nucleus euchromatin cytoplasm 15 phase cell cycle dna repair mechanism dna biotechnology chapter 6.1 dna structure nucleoside nucleotide purine pyrimidine denaturation reannealing 6.2 eukaryotic chromosome organization heterochromatin euchromatin telomere centromere 6.3 dna replication strand separation origin replication synthesis daughter strand replicate end chromosome 6.4 dna repair oncogene tumor suppressor gene proofreading mismatch repair nucleotide base excision repair 6.5 recombinant dna biotechnology dna cloning restriction enzyme dna library cdna application dna technology safety ethics content chapter relevant 14 question biochemistry mcat chapter cover material following aamc content category 1b transmission genetic information gene protein 5d structure function reactivity biologically relevant molecule cell body know job cell human body nucleic acid instruct cell function nucleic acid deoxyribonucleic acid dna store information cell selectively share information appropriate dna molecule pass generation generation dna replicate carefully regulate process design genome safe degradation free error seemingly small change genetic code result life threaten life- incompatible alteration protein structure function chapter unique structure dna discuss replication repair process primary focus eukaryotic process review prokaryotic genetic help well understand molecular basis life advancement medicine past decade increase understanding molecular genetic lead creation entire biotechnology industry center genomic utilization nucleic acid diagnostic test therapeutic intervention look important

principle chapter 6.1 dna structure chapter 6.1 able identify structure distinguish difference nucleotide recognize key feature rule purine pyrimidine structure pairing recall structural difference dna rna molecule chemically distinct form nucleic acid eukaryotic cell deoxyribonucleic acid dna ribonucleic acid rna polymer distinct role create molecule integral life live organism dna focus chapter rna discuss detail chapter 7 mcat biochemistry review bulk dna find chromosome nucleus eukaryotic cell present mitochondrion nucleosides nucleotide dna macromolecule essential understand molecule construct dna polydeoxyribonucleotide compose monodeoxyribonucleotides link nomenclature nucleic acid complicate term define nucleoside compose carbon sugar pentose bond nitrogenous base form covalently link base c-1′

sugar pentose bond nitrogenous base form covalently link base c-1′ sugar show figure 6.1 note carbon atom sugar label prime symbol distinguish carbon atom nitrogenous base figure 6.1 example nucleosides nucleotides form phosphate group attach c-5′ nucleoside molecule name accord number phosphate present adenosine di- triphosphate adp atp example gain name number phosphate group attach nucleoside adenosine high energy compound energy associate repulsion closely associate negative charge phosphate group show figure 6.2 nucleotide building block dna figure 6.2 high energy bond adenosine triphosphate nucleotide chapter 3 mcat general chemistry review learn bond breaking usually endothermic bond making usually exothermic atp offer biologically relevant mcat test exception rule negative charge close proximity remove terminal phosphate atp actually release energy power nucleic acid classify accord pentose contain show figure 6.3 pentose ribose nucleic acid rna pentose deoxyribose ribose 2′ oh group replace h figure 6.3 ribose deoxyribose ribose oh group c-2 deoxyribose h.

nomenclature common basis nucleoside nucleotide show table 6.1 note thymidine list deoxythymidine thymine appear exclusively dna table 6.1 nomenclature important basis

nucleoside nucleotide name nucleoside nucleotide attach deoxyribose show parenthesis backbone

dna compose alternate sugar phosphate group determine directionality dna read 5′ 3′. form nucleotide join 3′–5′ phosphodiester bond phosphate group link 3′ carbon sugar 5′ phosphate group incoming sugar chain phosphate carry negative charge dna rna strand overall negative strand dna distinct 5′ 3′ end create polarity backbone show figure 6.4 5′ end dna instance oh phosphate group bond c-5′ sugar 3′ end free oh c-3′ sugar base sequence nucleic acid strand write read 5′ 3′ direction dna strand figure 6.4 write 5′—atg—3′ simply atg dna sequence write slightly different way figure 6.4 dna strand polarity dna strand run antiparallel enzyme replicate transcribe dna work 5′ 3′ direction write backwards end label 3′—gta—5′ position phosphate show paptpg d shorthand deoxyribose dadtdg mcat check nucleic acid polarity easy way generate incorrect answer simply reverse reading frame 3′—gattaca—5′ dna generally double stranded dsdna rna generally single- stranded ssrna exception rule see especially virus describe chapter 1 mcat biology review purine pyrimidine family nitrogen contain basis find nucleotide purine pyrimidine basis describe show figure 6.5 represent common basis eukaryote note exception see trna prokaryote virus purine contain ring structure purine find nucleic acid adenine guanine g find dna rna pyrimidine contain ring structure pyrimidine cytosine c thymine t uracil u cytosine find dna rna thymine find dna uracil find rna figure 6.5 basis commonly find nucleic acid remember type structure class nitrogenous basis remember cut pye c u t pyrimidine note pie ring crust pyrimidine ring structure remember pure gold g purine think gold wedding ring take gold ring wedding like purine ring structure purine pyrimidine example biological aromatic heterocycle chemistry term aromatic describe unusually stable ring system adhere following specific rule 1 compound cyclic 2 compound planar 3 compound conjugate alternate single multiple bond lone pair create unhybridized p orbital atom ring

multiple bond lone pair create unhybridized p orbital atom ring 4 compound 4n + 2 n integer π electron call hückel rule common example aromatic compound benzene different structure obey rule aromatic compound extra stability delocalize π electron travel entire compound available molecular orbital carbon atom benzene sp2 hybridize orbital overlap equally neighbor result delocalize electron form π electron cloud plane ring show figure 6.6 delocalization characteristic aromatic molecule aromatic molecule fairly unreactive figure 6.6 delocalization π electron benzene heterocycle ring structure contain different element ring show figure 6.5 early purine pyrimidine contain nitrogen aromatic ring nucleic acid imbue exceptional stability help explain utility nucleotide molecule store genetic information put information start look watson crick model dna structure 1953

james watson francis crick present landmark finding modern biology medicine dimensional structure dna x ray pattern dna produce rosalind franklin lay necessary foundation work watson crick

able deduce double helical nature dna propose specific base pairing basis copying mechanism double helix linear polynucleotide chain dna wind spiral orientation common axis key feature model mention strand dna antiparallel strand orient opposite direction strand polarity 5′ 3′ page strand 5′ 3′ polarity page sugar phosphate backbone outside helix nitrogenous basis inside specific base pairing rule refer complementary base pairing show figure 6.7 adenine base pair thymine t hydrogen bond guanine g pair cytosine c hydrogen bond hydrogen bond g c base pair interaction strong hydrogen bond hydrophobic interaction basis provide stability double helix structure base sequence strand define base sequence figure 6.7 base pairing dna specific base pairing equal t g equal c. total purine equal total pyrimidine overall property know chargaff rule write complementary strand dna important remember base pairing rule track 5′ 3′ end remember sequence need complementary antiparallel example 5′—atcg—3′ complementary 5′—cgat—3′. chargaff rule double stranded dna purine = pyrimidine = t g = c

sample dna 10 g t 10 g = 10 c g + c = 20 + t = 80 t = 40 double helix dna right handed helix form call b dna show figure 6.8 helix b dna make turn 3.4 nm contain 10 basis span major minor groove identify interlock strand site protein binding form dna call z dna zigzag appearance left handed helix turn 4.6 nm contain 12 basis turn high gc content high salt concentration contribute formation form dna biological activity attribute z dna partly unstable difficult research figure 6.8 b dna double helix denaturation reannealing process replication transcription necessary gain access dna double helical nature dna denature condition disrupt hydrogen bonding base pairing result melting double helix single strand separate notably covalent link nucleotide backbone dna break process heat alkaline ph chemical like formaldehyde urea commonly

break process heat alkaline ph chemical like formaldehyde urea commonly denature denatured

single stranded dna reanneale bring denature condition slowly remove solution heat-denature dna slowly cool example complementary strand pair show figure 6.9 figure 6.9 denaturation reannealing dna annealing complementary dna strand important step laboratory process polymerase chain reaction pcr detection specific dna sequence technique well- characterize probe dna dna know sequence add mixture target dna sequence probe dna bind target dna sequence provide evidence presence gene interest bind process call hybridization describe detail later chapter mcat concept check 6.1 assess understanding material question 1 difference nucleoside nucleotide 2 base pairing rule accord watson crick model 3 major structural difference dna rna 4 aromaticity purine pyrimidine underscore genetic 5 strand rna contain 15 cytosine 15 adenine 35 guanine 35 uracil violate chargaff rule 6.2 eukaryotic chromosome organization chapter 6.2 able recall name role histone protein differentiate major characteristic heterochromatin euchromatin describe trait telomere centromere 6 billion basis dna human cell important cell organize basis effectively basis

replicate cell cycle utilize gene expression normal cellular function human dna divide 46 chromosome find nucleus cell supercoiling dna double helix provide compaction necessary dna make chromosome wind group small basic protein call histone form chromatin histone protein find eukaryotic cell copy histone protein h2a h2b h3 h4 form histone core 200 base pair dna wrap protein complex form nucleosome show figure 6.10 electron microscope nucleosome look like bead string histone h1 seal dna enter leave nucleosome add stability structure nucleosome create organized compact dna figure 6.10 nucleosome structure nucleosome compose dna wrap histone protein histone example nucleoprotein protein associate dna nucleoprotein acid soluble tend stimulate process transcription heterochromatin euchromatin chromosome diffuse configuration interphase cell cycle cell undergo dna replication s phase interphase have dna uncondense accessible make process efficient small percentage chromatin remain compact interphase refer heterochromatin heterochromatin appear dark light microscopy transcriptionally silent

interphase refer heterochromatin heterochromatin appear dark light microscopy transcriptionally silent heterochromatin consist dna highly repetitive sequence contrast disperse chromatin call euchromatin appear light light microscopy euchromatin contain genetically active dna heterochromatin euchromatin see nucleus figure 6.11 figure 6.11 euchromatin heterochromatin interphase nucleus heterochromatin dark dense silent euchromatin light uncondensed telomere centromere describe later chapter dna replication extend way end chromosome result lose sequence information round replication solution cell simple repeat unit ttaggg end dna form telomere sequence lose round replication replace enzyme telomerase telomerase highly express rapidly divide cell animal study indicate set number replication possible progressive shortening telomere contribute aging telomere serve second function high gc- content create exceptionally strong strand attraction end chromosome prevent unravel think telomere knot end chromosome centromere suggest region dna find center chromosome refer site constriction form noticeable indentation

chromosome compose heterochromatin turn compose tandem repeat sequence contain high gc content cell division sister chromatid remain connected centromere microtubule separate chromatid anaphase biochemistry guide example expert cisplatin effective chemotherapeutic agent number cancer include notoriously difficult treat head neck cancer cisplatin act bind dna irreversibly bind repair complex prevent effective repair cisplatin exhibit major drawback limit application cancer therapy severe effect rapid development drug resistance mutually connect adverse effect restrict administration high dose underdosing lead development resistance cancerous cell reason drug sensitize cancer cell cisplatin increase therapeutic efficacy topic cisplatin drug inhibit dna repair bad effect cancer cell purpose look drug make cancer cell group mice transfecte tumor cell intraperitoneal injection 24 hour later receive 5 mg kg cisplatin 166 mg kg butyrate cisplatin butyrate sham treatment life span mice note table 1 t c ratio experiment life span cancerous mouse ratio mean life span treat animal t control c investigate mechanism butyrate act exponentially grow hela cell treat 5 mm butyrate 8 µm cisplatin

grow hela cell treat 5 mm butyrate 8 µm cisplatin 4 24 hour treatment total histone fraction isolate equal quantity histone subject sds page subsequently western blot anti acetylated histone antibody acetylation post- translational modification add lysine group histone protein acetylation level express percentage untreated control figure 1 butyrate act histone measure 10.8 ± 2.0 14.0 ± 4.5 12.0 ± 3.5 19.0 ± 3.4 dv life span trend cistplatin + long life span iv treatment time trend butyrate cisplatin + butyrate high level acetylation 24 adapt koprinarova m. markovska p. iliev i. anachkova b. russev g. 2010 sodium butyrate enhance cytotoxic effect cisplatin abrogate cisplatin imposed give fact histone enrich surface- expose basic amino acid butyrate enhance cytotoxic effect cisplatin tumor cell question stem ask explain action butyrate conjunction cisplatin mean need dig experiment result passage paragraph tell cisplatin block dna repair target cancerous cell cisplatin likely cause cell death table 1 clearly show cisplatin increase life span mouse cancer couple cisplatin butyrate result tell pair

treatment work work mean need find information figure 1 treatment differ control 4 hour butyrate cisplatin + butyrate increase level histone acetylation passage tell histone acetylation post translational addition acetyl group lysine know structure amino acid lysine positively charge add acetyl group mask positive charge tell histone surface- expose basic amino acid basic amino acid like lysine arginine positively charge physiological ph.

let recall dna wrap tightly histone protein refer heterochromatin mean dna transcriptionally silent dna negative charge phosphodiester backbone acetylate lysine histone remove positive charge positive charge bind negatively charge dna histone long hold tightly dna mean dissociate dna dna tightly bind histone form euchromatin genetically active gene transcribe translate dna accessible cisplatin bind stop dna repair complex build unrepaired dna cause cell die usually apoptotic mechanism summary butyrate cause dna separate histone allow cisplatin bind stop dna repair complex fix error dna lead eventual cell death mcat concept check 6.2 assess understanding material question 1 histone protein eukaryotic cell histone core dna wrap form chromatin 2 compare contrast heterochromatin euchromatin base following density chromatin packing appearance light microscopy 3 property telomere centromere allow stay tightly raveled rest dna uncondense 6.3 dna replication chapter 6.3 able list name function major enzyme dna synthesis prokaryote differentiate synthesis lead lag strand explain role telomerase function telomere dna organism blueprint provide ability sustain activity life insight evolutionary past process dna replication highly regulate ensure close 100 percent perfection make copy genome possible dna replication necessary reproduction species strand separation origin replication human genome 3 billion base pair pack multiple chromosome replisome replication complex set specialized protein assist dna polymerase begin process replication dna unwind point call origin replication generation new dna proceed direction create replication fork side origin show figure 6.12 figure 6.12 origin replication replication fork form side origin increase efficiency replication bacterial chromosome closed double stranded circular dna molecule single origin replication

replication fork away opposite direction circle replication fork eventually meet result production identical circular molecule dna eukaryotic replication copy basis compare prokaryotic slow process order duplicate chromosome efficiently eukaryotic chromosome contain linear molecule double stranded dna have multiple origin replication replication fork sister chromatid create chromatid remain connected centromere difference

replication fork sister chromatid create chromatid remain connected centromere difference prokaryotic eukaryotic replication pattern show figure figure 6.13 dna replication prokaryotes eukaryote antibiotic end floxacin ciprofloxacin moxifloxacin call fluoroquinolone target prokaryotic topoisomerase dna gyrase stop bacterial replication slow infection fluoroquinolone routinely pneumonia certain infection genitourinary system helicase enzyme responsible unwind dna generate single stranded template strand ahead polymerase open unpaired strand dna sticky molecular sense free purine pyrimidine seek molecule hydrogen bond protein require hold strand apart single- strand dna bind protein bind unraveled strand prevent reassociation dna strand degradation dna nuclease helicase unwind dna cause positive supercoiling strain dna helix supercoiling wrapping dna helical structure push telomere replication picture old fashioned telephone cord tangle alleviate torsional stress reduce risk strand breakage dna topoisomerase introduce negative supercoil work ahead helicase nick strand allow relaxation torsional pressure reseal cut replication parental strand serve template generation new daughter strand replication process term semiconservative parental strand retain result identical double stranded dna molecule show figure figure 6.14 semiconservative replication new double helix old parent strand new daughter strand synthesis daughter strand dna polymerase responsible read dna template parental strand synthesize new daughter strand dna polymerase read template strand 3′ 5′ direction synthesize complementary strand 5′ 3′ direction result new double helix dna require antiparallel orientation directionality dna polymerase certain constraint arise remember separate parental strand helix antiparallel replication fork strand orient correct direction dna

polymerase strand exception dna polymerase reading direction untested endonuclease molecular biology 5′ 3′.

dna polymerase read 3′ 5′ following process occur 5′ 3′ rna translation reading codon

lead strand replication fork strand copy continuous fashion direction advance replication fork parental strand read 3′ 5′ complement synthesize 5′ 3′ manner discuss lag strand strand copy direction opposite direction replication fork replication fork parental strand 5′ 3′ polarity dna polymerase simply read synthesize strand solve problem dna polymerase synthesize 5′ 3′ direction 3′ 5′ template small strand call okazaki fragment produce replication fork continue forward clear additional space dna polymerase fill time dna polymerase complete okazaki fragment turn find gap need fill process dna replication show figure 6.15 step replication dna actually lay rna primer dna synthesize de novo need molecule hook rna hand directly pair parent strand primase synthesize short primer roughly 10 nucleotide 5′ 3′ direction start replication strand short rna sequence constantly add lag strand okazaki fragment start new primer contrast lead strand require theory reality usually primer lead strand dna polymerase iii prokaryote dna polymerase α δ ε eukaryote begin synthesize daughter strand dna 5′ 3′ manner incoming nucleotide 5′ deoxyribonucleotide triphosphate datp dctp dgtp dttp new phosphodiester bond free pyrophosphate ppi release figure 6.15 enzyme dna replication process involve action dna helicase gyrase polymerase ligase create identical molecule rna eventually remove maintain integrity genome accomplish enzyme dna polymerase prokaryote rnase h eukaryote dna polymerase prokaryote dna polymerase δ eukaryote add dna nucleotide rna primer dna ligase seal end dna molecule create continuous strand dna prokaryotic dna synthesis work great detail eukaryotic synthesis consider similar difference enzyme involve classic dna polymerase eukaryotic cell designate greek letter α β γ δ ε research reveal polymerase name ζ μ outside scope mcat table 6.2 highlight difference name enzyme associate dna replication prokaryotic vs. eukaryotic cell special attention pay eukaryotic dna

polymerase table 6.2 step protein involve dna replication step replication origin replication chromosome unwinding dna double helix

replication step replication origin replication chromosome unwinding dna double helix stabilization unwound template synthesis rna primer synthesis dna dna polymerase iii α δ ε removal rna primer dna polymerase 5′ 3′ exonuclease rnase h 5′ 3′ replacement rna dna dna polymerase dna polymerase δ joining okazaki fragment removal positive supercoil ahead advance replication fork synthesis telomere dna polymerase α δ ε work synthesize lead lag strand dna polymerase δ fill gap leave rna primer remove dna polymerase γ replicate mitochondrial dna dna polymerase β ε important process dna repair dna polymerase δ ε assist pcna protein assemble trimer form slide clamp clamp help strengthen interaction dna polymerase replicate end chromosome dna polymerase excellent job synthesize dna unfortunately complete synthesis 5′ end strand time dna synthesis carry chromosome little short lengthen time cell replicate synthesize dna necessary gene damage chromosome contain telomere describe early telomere locate tip chromosome consist repetitive sequence high gc content repetition mean telomere slightly degrade replication cycle loss function mcat concept check 6.3 assess understanding material question 1 enzyme list list function enzyme find prokaryote eukaryote dna polymerase iii dna polymerase α dna polymerase 2 lead strand lag strand prone mutation 3 function telomere 6.4 dna repair chapter 6.4 able describe major dna repair process include proofreading mismatch repair excision repair recognize key component location dna repair process include mismatch excision process identify major trait oncogene tumor suppressor gene structure dna damage number way exposure chemical radiation dna susceptible damage damage correct subsequently copy pass daughter cell damage include breaking dna backbone structural spontaneous alteration basis incorporation incorrect base replication defect genetic code cause increase risk cancer cell multiple process place catch correct genetic error help maintain integrity stability genome cell cell generation generation oncogene tumor suppressor gene certain gene mutate lead cancer cancer cell

tumor suppressor gene certain gene mutate lead cancer cancer cell proliferate excessively able divide stimulation cell long subject normal control cell proliferation definition cancer cell able migrate local invasion metastasis migration distant tissue bloodstream lymphatic system time cancer cell tend accumulate mutation mutate gene cause cancer term oncogene oncogene primarily encode cell cycle relate protein gene mutate refer proto oncogene gene category discover src name sarcoma category connective tissue cancer abnormal allele encode protein active normal protein promote rapid cell cycle advancement typically mutation copy sufficient promote tumor growth consider dominant outcome oncogene mutate tumor suppressor gene cancer actual cause different oncogene promote cell cycle mutate tumor suppressor long slow cell cycle oncogene like step gas pedal mutate tumor suppressor like cut brake tumor suppressor gene like p53 rb retinoblastoma encode protein inhibit cell cycle participate dna repair process normally function stop tumor progression call antioncogene mutation gene result loss tumor suppression activity promote cancer inactivation allele necessary loss function case copy normal protein function inhibit tumor formation example multiple mutation hit require proofreading mismatch repair dna polymerase move single strand dna build complementary strand go dna polymerase 100 percent accurate occasionally error synthesis double stranded dna molecule pass dna polymerase enzyme proofreading complementary strand incorrectly pair basis hydrogen bond strand unstable lack stability detect dna pass polymerase incorrect base excise replace correct show figure 6.16 parent daughter strand simply dna enzyme discriminate template strand incorrectly pair daughter strand look level methylation template strand exist cell long period time heavily methylate methylation play role transcriptional activity dna describe chapter 7 mcat biochemistry review system efficient correct error sequence replication dna ligase close gap okazaki fragment lack proofreading ability likelihood mutation lag strand considerably high lead figure 6.16 proofread dna polymerase cells machinery g2 phase cell cycle mismatch repair enzyme encode

cells machinery g2 phase cell cycle mismatch repair enzyme encode gene msh2 mlh1 detect remove error introduce replication miss s phase cell cycle enzyme homologue muts mutl prokaryote serve similar function nucleotide base excision repair repair mechanism involve protein recognize damage lesion remove damage use complementary strand template fill gap cell machinery recognize specific type dna damage g1 g2 cell cycle phase fix nucleotide excision repair base excision repair nucleotide excision repair ultraviolet light induce formation dimer adjacent thymine residue dna formation thymine dimer interfere dna replication normal gene expression distort shape double helix thymine dimer eliminate dna nucleotide excision repair ner mechanism cut patch process show figure 6.17 specific protein scan dna molecule recognize lesion bulge strand excision endonuclease make nick phosphodiester backbone damage strand side thymine dimer remove defective oligonucleotide dna polymerase fill gap synthesize dna 5′ 3′ direction undamaged strand template finally nick strand seal dna ligase figure 6.17 thymine dimer formation nucleotide excision repair base excision repair alteration basis occur cellular insult example thermal energy absorb dna lead cytosine deamination loss amino group cytosine result conversion cytosine uracil uracil find dna molecule easily detect error detection system exist small non helix distort mutation basis repair base excision repair affected base recognize remove glycosylase enzyme leave apurinic apyrimidinic ap site call abasic site ap site recognize ap endonuclease remove damage sequence dna dna polymerase dna ligase fill gap seal strand describe mcat concept check 6.4 assess understanding material question 1 difference oncogene tumor suppressor gene 2 dna polymerase recognize strand template strand daughter strand synthesize 3 repair mechanism phase cell cycle repair mechanism function key enzyme gene specifically associate mechanism phase cell nucleotide excision repair base excision repair 4 key structural difference type lesion correct nucleotide excision repair vs. correct base excision repair 6.5 recombinant dna biotechnology

repair vs. correct base excision repair 6.5 recombinant dna biotechnology chapter 6.5 able predict effective dna library technique give laboratory application recall input output biotechnology technique include pcr southern blotting sequencing describe difference transgenic mouse knockout mouse review basic dna structure function discuss knowledge harness variety research treatment innovation recombinant dna technology allow dna fragment source multiply gene cloning polymerase chain reaction pcr provide means analyze alter gene protein provide reagent necessary genetic testing carrier detection detect hetero zygote status particular disease prenatal diagnosis genetic disease useful gene therapy additionally technology provide source specific protein recombinant human insulin unlimited quantity process create recombinant dna gene cloning benefit show figure 6.18 figure 6.18 clone recombinant dna cloning allow production recombinant protein identification characterization dna increase volume purity dna cloning restriction enzymes dna cloning technique produce large amount desire sequence dna clone present small quantity heterogeneous mixture contain dna sequence goal produce large quantity homogeneous dna application cloning require investigator ligate dna interest piece nucleic acid refer vector form recombinant vector vector usually bacterial viral plasmid transfer host bacterium insertion dna interest bacteria grow colony colony contain recombinant vector isolate accomplish ensure recombinant vector include gene antibiotic resistance antibiotic kill colony contain recombinant vector result colony grow large quantity depend investigator goal bacteria express gene interest generate large quantity recombinant protein lyse reisolate replicate recombinant vector process restriction enzyme release clone dna vector restriction enzyme restriction endonuclease enzyme recognize specific double stranded dna sequence sequence palindromic mean 5′ 3′ sequence strand identical 5′ 3′ sequence strand antiparallel orientation restriction enzyme isolate bacteria natural source bacteria act restriction modification system protect bacteria infection dna virus specific sequence identify restriction enzyme cut backbone double helix thousand restriction enzyme study commercially available laboratory allow process dna specific way restriction enzyme produce offset cut yield sticky

dna specific way restriction enzyme produce offset cut yield sticky end fragment show figure 6.19 sticky end advantageous facilitate recombination restriction fragment vector dna vector choice cut restriction enzyme allow fragment insert directly figure 6.19 restriction enzyme ecori create sticky end restriction enzyme cut palindromic sequence gaattc dna vector contain sequence recognize restriction enzyme vector require origin replication gene antibiotic resistance allow selection colony recombinant plasmid describe formation recombinant plasmid show figure 6.20 figure 6.20 formation recombinant plasmid vector ori origin replication ampr gene resistance ampicillin antibiotic dna library cdna dna cloning produce dna library dna library large collection know dna sequence sum sequence equate genome organism dna library dna fragment digest randomly clone vector utilize study library consist genomic dna cdna genomic library contain large fragment dna include code exon noncoding intron region genome cdna complementary dna library construct reverse transcribe process mrna show figure 6.21 cdna lack noncoding region intron include gene express tissue mrna isolate reason library call expression library genomic library

contain entire genome organism gene chance split multiple vector cdna library reliably sequence specific gene identify disease cause mutation produce recombinant protein insulin clotting factor vaccine produce transgenic animal application discuss detail subsequent section chapter table 6.3 contrast characteristic genomic cdna library figure 6.21 clone express gene produce cdna table 6.3 comparison genomic cdna expression library source dna enzyme library contain nonexpressed sequence clone gene complete sequence clone gene contain intron promoter enhancer sequence yes necessarily gene express clone host gene therapy construct transgenic animal tool researcher call hybridization hybridization joining complementary base pair sequence dna dna recognition dna rna recognition technique use single stranded sequence vital polymerase chain reaction southern blotting polymerase chain reaction polymerase chain reaction pcr automate process produce million copy dna sequence

amplify dna bacteria pcr identify criminal suspect familial relationship disease cause bacteria virus know sequence flank desire region dna allow amplification sequence pcr reaction require primer complementary dna flank region interest nucleotide datp dttp dctp dgtp dna polymerase primer high gc content 40–60 optimal additional hydrogen bond g c confer stability reaction need heat cause dna double helix melt apart denature unfortunately dna polymerase find human body work high temperature dna polymerase thermus aquaticus bacteria thrive hot spring yellowstone national park 70 ° c instead pcr dna interest denature replicate cool allow reannealing daughter strand parent strand process repeat time double dna cycle copy dna sequence available testing pcr provide great example temperature dependence enzyme human dna polymerase denature high temperature require pcr dna polymerase t. aquaticus function optimally temperature refer chapter 2 mcat biochemistry review link temperature enzyme activity gel electrophoresi southern blotting gel electrophoresi technique separate macromolecule dna protein size charge electrophoresis protein discuss detail chapter 3 mcat biochemistry review dna separate similar way molecule dna negatively charge phosphate group backbone molecule

similar way molecule dna negatively charge phosphate group backbone molecule dna strand migrate anode electrochemical cell prefer gel dna electrophoresis agarose gel like protein polyacrylamide gel long dna strand slow migrate gel gel electrophoresis perform southern blot southern blot detect presence quantity dna strand sample dna cut restriction enzyme separate gel electrophoresi dna fragment carefully transfer membrane retain separation membrane probe copy single stranded dna sequence probe bind complementary sequence form double stranded dna probe label radioisotope indicator protein indicate presence desire sequence dna sequencing revolutionize world live application technique far reach medical field criminal legal system basic sequencing reaction contain main player replication include template dna primer appropriate dna polymerase deoxyribonucleotide triphosphate addition modify base call dideoxyribonucleotide add low concentration dideoxyribonucleotide ddatp

ddctp ddgtp ddttp contain hydrogen c-3′ hydroxyl group modify basis incorporate polymerase long add chain eventually sample contain fragment number nucleotide desire sequence terminate modify basis fragment separate size gel electrophoresi base fragment read gel electrophoresis separate strand size basis easily read order human genome project initiate 1991 involve identification 3 billion base pair human dna sequence draft project complete 2000 project demonstrate human appear different sequence dna reality highly conserve average unrelated individual share 99.9 dna sequence application dna technology addition utility research tool dna biotechnology lead number therapeutic breakthrough range gene therapy describe section development personalized chemotherapeutic regimen cancer genotype tumor cell dna technology industry include development genetically modify food enrich specific nutrient testing environment risk assessment cleanup procedure mention previously dna technology play key role forensic pathology crime scene investigation likely beginning biotechnology continue active area research gene therapy offer potential cure individual inherit disease gene therapy intend disease give gene mutate inactive give rise pathology transfer normal copy gene affect tissue pathology fix essentially cure individual instance half child severe combined immunodeficiency scid

essentially cure individual instance half child severe combined immunodeficiency scid mutation gene encode γ chain common interleukin receptor place working copy gene γ chain virus transmit functional gene human cell successful case gene therapy scid cause different mutation 1990 gene replacement therapy realistic possibility efficient gene delivery vector transfer clone gene target cell dna virus naturally infect cell insert genetic material gene delivery vector use modify virus portion viral genome replace clone gene virus infect complete replication cycle show figure 6.22 randomly integrate dna pose risk integrate near activate host oncogene child treat scid small number develop leukemia cancer white blood cell figure 6.22 retroviral gene therapy example give use retrovirus virus gene therapy transgenic knockout mouse dna isolate introduce eukaryotic cell transgenic mouse alter germ line

introduce clone gene fertilize ova embryonic stem cell clone gene introduce refer transgene transgene disease- produce allele transgenic mouse study disease process early embryonic development adulthood similar approach produce knockout mouse gene intentionally delete knock mouse provide valuable model study human disease different approach develop transgenic mice clone gene microinjecte nucleus newly fertilize ovum rarely gene subsequently incorporate nuclear dna zygote ovum implant surrogate successful result offspring contain transgene cell include germ line cell gamete consequently transgene pass offspring transgene coexist animal copy gene delete approach useful study dominant gene effect useful model recessive disease number copy gene insert genome control transgenic mouse contain different number copy transgene method demonstrate figure 6.23 figure 6.23 creation transgenic mouse embryonic stem cell line develop transgenic mouse advantage stem cell line clone gene introduce culture select cell transgene successfully insert altered stem cell inject develop blastocyst implant surrogate blastocyst compose type stem cell one contain transgene original blastocyst cell lack transgene result offspring chimera mean patch cell include germ cell derive lineage evident cell lineage transgenic

cell include germ cell derive lineage evident cell lineage transgenic cell host blastocyst come mouse different coat color chimera patchy coat color allow easily identify chimera breed produce mice heterozygous transgene mouse homozygous story jesse gelsinger particularly harrowing example problem biotechnology create diagnose mild ornithine transcarbamylase otc deficiency defect urea cycle gelsinger volunteer clinical trial gene therapy trial fraught questionable consent practice gelsinger die massive immune response viral vector lead multiple organ failure brain death 18 year old safety ethics different procedure technique review provide great insight researcher different field study important acknowledge potential risk associate technology safety concern increase resistance virus bacteria impact human environment live ethical dilemma arise ethical test life threaten genetic disease potentially terminate pregnancy base result test eye hair color ethical question choose human test

subject disease cause gene find individual family need communicate relative risk potentially violate principle privacy permissible carry potentially risky therapy individual illness make unable communicate medical community bioethicist large continue wrestle question meddle genetic makeup mcat concept check 6.5 assess understanding material question 1 create dna library advantage genomic library cdna library 2 pcr accomplish researcher southern blotting 3 dna sequencing dna polymer stop grow dideoxyribonucleotide add 4 difference transgenic knockout mouse chapter dna molecule discuss importance molecule archive cell highlight unique structure dna double helix complementary base pairing integral dna molecule ability replicate pass information cell cell generation generation replication dna complex process involve enzyme protein highly coordinate ensure efficiency discovery dna structure function aid understand cellular process place provide tool exploit laboratory dna heavily test concept mcat make sense understanding molecule increase exponentially decade ability manipulate dna lead creation entire industry biotechnology assuredly grow career medical student physician chapter turn dna counterpart rna explore gene discuss chapter actually turn functional protein key process transcription translation review content test

turn functional protein key process transcription translation review content test knowledge critical thinking skill complete test like passage set online resource deoxyribonucleic acid dna macromolecule store genetic information live organism nucleoside contain carbon sugar bond nitrogenous base nucleotide nucleoside phosphate group nucleotide dna contain deoxyribose rna contain nucleotide abbreviate letter adenine cytosine c guanine g thymine t uracil u dna organize accord watson crick model backbone compose alternate sugar phosphate group read 5′ 3′.

strand antiparallel polarity wind purines g pair pyrimidine c u t dna pair t hydrogen bond c pair g hydrogen bond rna contain thymine contain uracil instead rna pair u purine pyrimidine biological aromatic heterocycle aromatic compound cyclic planar conjugated contain 4n + 2 π

electron n integer hückel rule heterocycle ring structure contain different element ring chargaff rule state purine pyrimidine equal number dna molecule base pairing adenine equal thymine cytosine equal guanine dna b dna form right handed helix low concentration z dna zigzag shape see high gc content high salt concentration dna strand pull apart denature bring reanneale heat alkaline ph chemical like formaldehyde urea cause denaturation dna removal condition result reannealing strand eukaryotic chromosome organization dna organize 46 chromosome human cell eukaryote dna wind histone protein h2a h2b h3 h4 form nucleosome stabilize histone protein h1 dna associate histone chromatin nucleus heterochromatin dense transcriptionally silent dna appear dark light microscopy euchromatin dense transcriptionally active dna appear light light microscopy telomere end chromosome contain high gc- content prevent unraveling dna replication telomere slightly shorten partially reverse enzyme telomerase centromere locate middle chromosome hold sister chromatid separate anaphase mitosis contain high gc content maintain strong bond chromatid replisome replication complex set specialized protein assist dna polymerase replicate dna unwound origin replication helicase produce replication fork prokaryote circular chromosome contain origin replication eukaryote linear chromosome contain origin unwound strand keep reanneale degrade single stranded dna bind protein supercoiling cause torsional strain dna molecule release dna topoisomerase create nick dna dna replication semiconservative old parent strand new daughter strand incorporate new dna dna synthesize adjacent nucleotide hook small rna primer primase dna polymerase iii prokaryote dna polymerase α δ ε eukaryote synthesize new strand dna read template dna 3′ 5′ synthesize new strand 5′ 3′. lead strand require primer synthesize

synthesize new strand 5′ 3′. lead strand require primer synthesize continuously entirety lag strand require primer synthesize discrete section call okazaki fragment rna primer later remove dna polymerase prokaryote rnase h eukaryote fill dna dna polymerase prokaryote dna polymerase δ eukaryote dna ligase fuse dna strand create oncogene develop mutation proto

oncogene promote cell cycling lead cancer define unchecked cell proliferation ability spread local invasion metastasize migrate distant site bloodstream lymphatic system tumor suppressor gene code protein reduce cell cycling promote dna repair mutation tumor suppressor gene lead cancer replication dna polymerase proofread work excise incorrectly match basis daughter strand identify lack methylation correct accordingly mismatch repair occur g2 phase cell cycle gene msh2 mlh1 nucleotide excision repair fix helix deform lesion dna thymine dimer cut patch process require base excision repair fix nondeforme lesion dna helix cytosine deamination remove base leave apurinic apyrimidinic ap site ap endonuclease remove damage sequence fill correct basis recombinant dna biotechnology recombinant dna dna compose nucleotide dna cloning introduce fragment dna vector plasmid restriction enzyme restriction endonuclease cut plasmid fragment leave sticky end fragment bind plasmid introduce bacterial cell permit replicate generate copy fragment vectors contain origin replication fragment interest gene antibiotic resistance permit selection colony replication replicate bacterial cell create protein interest lyse allow isolation fragment interest vector dna library large collection know dna sequence genomic library contain large fragment dna include code noncoding region genome recombinant protein gene therapy cdna library expression library contain small fragment dna include exon gene express sample tissue recombinant protein gene hybridization joining complementary base pair sequence polymerase chain reaction pcr automate process million copy dna sequence create small sample hybridization dna molecule separate size agarose gel southern blotting detect presence quantity dna strand sample electrophoresi sample transfer membrane probe single stranded dna molecule look sequence interest

transfer membrane probe single stranded dna molecule look sequence interest dna sequencing use dideoxyribonucleotide terminate dna chain lack 3′ oh group result fragment separate gel electrophoresi sequence read directly gel gene therapy method cure genetic deficiency introduce functional gene viral vector transgenic mouse create integrate gene

interest germ line embryonic stem cell develop mouse organism contain cell different lineage mouse form integration transgenic embryonic stem cell normal mouse blastocyst call chimera transgenic mouse mate select transgene knockout mouse create delete gene interest biotechnology bring number safety ethical issue include pathogen resistance ethic choose individual specific trait answer concept check 1 nucleoside contain carbon sugar pentose nitrogenous base nucleotide compose nucleoside plus 2 pair t dna u rna hydrogen bond c pair g hydrogen bond 3 dna contain deoxyribose rna contain ribose dna contain thymine rna contain uracil usually dna double stranded rna single stranded 4 aromaticity nucleic acid make compound stable unreactive stability important store genetic information avoid spontaneous mutation 5 violate chargaff rule rna single stranded complementarity see dna hold true single-stranded rna c necessarily equal g necessarily equal u. 1 histone protein h1 h2a h2b h3 h4 h1 histone core density chromatin packing dense uncondensed appearance light microscopy 3 high gc content increase hydrogen bonding make association dna strand strong telomere centromere unwind dna double helix prevent reannealing dna double helix replication place ~10 nucleotide rna primer begin dna replication dna polymerase iii add nucleotide grow dna polymerase α add nucleotide grow dna polymerase fill gap leave rna excise rna primer join dna strand especially okazaki fragment reduce torsional strain positive supercoil introduce nick dna strand 2 lag strand prone mutation constantly start stop process dna replication additionally contain rna primer remove fill dna 3 telomere end eukaryotic chromosome contain repetitive sequence noncoding dna protect chromosome lose

eukaryotic chromosome contain repetitive sequence noncoding dna protect chromosome lose important gene incomplete replication 5′ end dna strand 1 oncogene properly proto oncogene code cell cycle promote protein mutate proto oncogene oncogene promote rapid cell cycling tumor suppressor gene code repair cell cycle inhibit protein mutate cell cycle allow proceed unchecked oncogene like step gas pedal mutate tumor suppressor gene like cut brake 2 parent strand heavily methylate daughter strand barely methylate allow dna polymerase

distinguish strand proofreading phase cell msh2 mlh1(muts mutl nucleotide excision repair base excision repair glycosylase ap endonuclease 4 nucleotide excision repair correct lesion large distort double helix base excision repair correct lesion small distort double helix 1 genomic library include dna organism genome include noncode region useful study dna intron centromere telomere cdna library include express gene give tissue express recombinant protein perform gene therapy 2 pcr increase number copy give dna sequence sample contain copy dna sequence southern blotting useful search particular dna sequence separate dna fragment length probe sequence interest 3 dideoxyribonucleotide lack 3′ oh group require dna strand elongation dideoxyribonucleotide add grow dna molecule nucleotide add dideoxyribonucleotides 3′ oh group form 4 transgenic mouse gene introduce germ line embryonic stem cell look effect gene well suit study effect dominant allele knockout mouse gene interest remove add science mastery assessment nucleotide bond form polynucleotide 3′ hydroxyl group nucleotide sugar join 5′ hydroxyl group adjacent nucleotide sugar phosphodiester bond hydrogen bonding important hold complementary strand play role bond form adjacent nucleotide single strand look false statement read choice eliminate true find overtly false let quickly review main difference

dna rna cell dna double stranded deoxyribose sugar nitrogenous basis t c g. rna hand usually single stranded ribose sugar basis u c g. d false dna replication rna synthesis proceed 5′ 3′ direction melting temperature dna temperature dna double helix separate single strand denature hydrogen bond link base pair break cytosine bind guanine hydrogen bond adenine bind thymine hydrogen bond heat need disrupt bonding proportional number bond high gc content dna segment high melting point aromatic ring contain conjugate π electron require alternate single multiple bond lone pair carbohydrate ring structure single bond present prevent aromaticity nucleic acid contain aromatic heterocycle protein generally contain aromatic amino acid tryptophan phenylalanine compound aromatic cyclic planar conjugate contain 4n + 2 π electron n integer conjugation require atom ring unhybridized p orbital

example aromatic compound alternate single double bond compound aromatic contain triple bond permit unhybridized p orbital dna replication strand separate dna helicase replication fork primase create primer initiation replication follow dna polymerase lag strand okazaki fragment form join dna ligase b chromosome process end call telomere replicate assistance enzyme telomerase d rna polymerase locate nucleolus synthesize rrna cdna complementary dna form process mrna strand reverse transcription cdna dna library contain exon gene transcriptionally active sample tissue polymerase chain reaction clone sequence dna dna sample primer free nucleotide enzyme polymerase thermus aquaticus reaction regulate thermal cycling denature human enzyme endonuclease enzyme cut dna cell dna repair scientist dna analysis restriction enzyme endonuclease restriction enzyme cleave dna electrophoresis southern blotting introduce gene interest viral vector gene therapy prokaryotic dna circular lack histone protein form nucleosome prokaryotic eukaryotic dna replicate dna polymerase polymerase differ identity eukaryotic dna organize chromatin condense form linear chromosome prokaryote circular chromosome eukaryotic dna telomere common dna mutation transition cytosine uracil presence heat dna repair enzyme recognize uracil correct

cytosine uracil presence heat dna repair enzyme recognize uracil correct error excise base insert cytosine rna exist transiently cell cytosine degradation insignificant uracil dna normal circumstance impossible tell base uracil damaged cytosine oncogene likely result cancer activation b tumor suppressor gene likely result cancer primary ethical concern relate gene sequencing issue consent privacy genetic screening provide information direct relative potential violation privacy communicate information family member risk significant physical risk eliminate gene sequencing fairly accurate eliminate c d euchromatin classic bead string appearance stain lightly heterochromatin tightly pack stain darkly heterochromatin primarily compose inactive gene untranslated region euchromatin able express chromatin find nucleus cytoplasm mismatch repair mechanism active s phase proofreading g2 phase msh2 mlh1

eliminate b c nucleotide base excision repair mechanism active g1 g2 phase eliminate mechanism exist interphase aim prevent propagation error daughter cell m phase mitosis consult online resource additional practice biochemistry chapter 4 carbohydrate structure function biochemistry chapter 7 rna genetic code biology chapter 1 biology chapter 2 biology chapter 3 embryogenesis development biology chapter 12 genetics evolution rna genetic code pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry

skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 role peptidyl transferase play protein synthesis a. transport initiator aminoacyl trna complex b. help ribosome advance nucleotide mrna 5′ 3′ direction c. hold protein tertiary structure d. catalyze formation peptide bond 2 mutation following component lac operon lead significant reduction expression lactase structural gene b. regulatory gene d. structural gene 3 topoisomerase enzyme involve a. dna replication transcription b. posttranscriptional processing c. rna synthesis translation d. posttranslational processing 4 val trnaval trna carry valine ribosome translation follow sequence give appropriate anticodon trna note refer figure 7.5 genetic code table 5 enhancer transcriptional regulatory sequence function enhance activity a. rna polymerase single promoter site b. rna polymerase multiple promoter site c. spliceosome lariat formation ribosome d. transcription factor bind promoter

rna 6 genetic code human nuclear dna codon specify amino acid tyrosine uac nucleotide change codon mutate uag type mutation a. silent mutation b. missense mutation c. nonsense mutation d. frameshift mutation 7 follow eukaryote increase transcription gene a. gene duplication b. histone acetylation c. dna methylation 8 trypsin convert chymotrypsinogen chymotrypsin molecule chymotrypsin bind repressor turn bind operator region prevent transcription trypsin similar following operon a. trp operon lack tryptophan b. trp operon abundance tryptophan c. lac operon lack lactose d.

trp operon abundance tryptophan c. lac operon lack lactose d. lac operon abundance lactose 9 following rna molecule protein find spliceosome intron excision 10 4 year old toddler cystic fibrosis cf see physician upper respiratory infection prior genetic testing show deletion base pair exon 10 cftr gene affect codon 507 508 nucleotide sequence region normal mutant allele show x denote miss nucleotide normal gene coding strand mutant gene coding strand effect mutation amino acid sequence protein encode cftr gene note refer figure 7.5 genetic code table a. deletion phenylalanine residue change c- b. deletion leucine residue change c terminus c. deletion phenylalanine residue change c- d. deletion leucine residue change c terminus 11 gene encode protein 150 amino acid intron 1000 base pair bp 5′-untranslated region 100 bp 3′-untranslated region 200 bp final mrna basis lie start aug codon final 12 peptidyl transferase connect carboxylate group amino acid amino group incoming amino acid type linkage create peptide bond 13 eukaryotic cell find exhibit truncation mutation create inactive rna polymerase enzyme type rna affect inactivation 14 sequence piece dna read follow base sequence mrna transcribe dna 15

double stranded rna translate ribosome mark degradation cell follow strand rna prevent mature mrna cytoplasm translate a. identical mrna produce b. antisense mrna produce c. mrna thymine substitute uracil d. sense mrna produce rna genetic code chapter 7.1 genetic code type rna mechanism transcription mechanism translation 7.4 control gene expression

prokaryote 7.5 control gene expression

eukaryote regulation chromatin structure content chapter relevant 9 question biochemistry mcat chapter cover material following aamc content category 1b transmission genetic information gene protein 5d structure function reactivity biologically relevant molecule hepatitis c virus hcv continue major cause cirrhosis liver failure united states usually associate intravenous drug use hepatitis c cause ongoing damage inflammation liver lead formation scar tissue replace normal cell organ time buildup scar tissue make liver unable metabolic demand body liver failure ensue fight virus infected hepatocyte release interferon peptide signal suggest interfere viral replication virus hijack host cell machinery replicate way body limit spread virus shut process transcription translation interferon curtail process virally infect cell induce production rnase l cleave rna cell reduce ability virus replicate couple immune defense interferon serve efficient mechanism protect body viral pathogen normal healthy cell step express genetic information transcription information base sequence double- stranded dna molecule form single stranded molecule rna second step translate nucleotide sequence protein cell express gene product control gene expression lead differentiation totipotent zygote tissue body chapter discuss process protein produce control modulate step path 7.1 genetic code chapter 7.1 able differentiate different type rna mrna trna rrna transcribe dna sequence like gaattcg mrna conjugate define concept wobble degeneracy identify translation outcome key codon include aug uag uaa predict likely impact different mutation type result peptide organism able store preserve genetic information pass information future generation express information carry process life know dna rna share language code nitrogenous basis protein compose amino acid constitute different language altogether use genetic code translate genetic information protein nucleotide play crucial role maintain genetic identity generation generation protein encode help organism develop perform necessary function life major step involve transfer genetic information illustrate central dogma molecular biology show figure 7.1 classically gene unit dna encode specific protein rna molecule transcription

classically gene unit dna encode specific protein rna molecule transcription translation gene express sequence complicate increase knowledge way gene nucleic acid express useful general work definition process dna replication transcription translation discuss dna synthesis continue learn gene expression rest chapter figure 7.1 central dogma molecular biology relationship sequence find double stranded dna single stranded rna protein illustrate figure 7.2 prototypical gene messenger rna synthesize 5′ 3′ direction complementary antiparallel dna template strand ribosome translate mrna 5′ 3′ direction synthesize protein amino terminus n terminus carboxy terminus c- figure 7.2 flow genetic information dna protein type rna main type rna find cell mrna trna rrna main type describe regulatory specialized form rna describe later chapter mrna messenger genetic information dna code protein perform important enzymatic reaction protein responsible cell mrna take information

dna ribosome creation primary protein messenger rna mrna messenger rna mrna carry information

specify amino acid sequence protein ribosome mrna transcribe template dna strand rna polymerase enzyme nucleus cell mrna undergo host posttranscriptional modification prior release nucleus mrna type rna contain information translate protein read three- nucleotide segment term codon eukaryote mrna monocistronic mean mrna molecule translate protein product eukaryote cell different mrna molecule thousand different protein cell prokaryote mrna polycistronic start process translation different location mrna result different protein process create mature mrna discuss section chapter transfer rna trna transfer rna trna responsible convert language nucleic acid language amino acid peptide trna molecule contain fold strand rna include nucleotide anticodon show figure 7.3 anticodon recognize pair appropriate codon mrna molecule ribosome 20 amino acid eukaryotic protein represent codon nascent polypeptide ribosome amino acid connect specific trna molecule trna molecule

say charge activate amino acid show figure 7.4 mature trna find cytoplasm figure 7.3 structure trna figure 7.4 activation amino acid protein synthesis type amino acid activate different aminoacyl trna synthetase require high energy bond atp imply attachment amino acid energy rich bond aminoacyl trna synthetase transfer activate amino acid 3′ end correct trna trna cca nucleotide sequence amino acid bind high energy aminoacyl trna bond supply energy need create peptide bond translation ribosomal rna rrna ribosomal rna rrna synthesize nucleolus function integral ribosomal machinery protein assembly cytoplasm rrna molecule function ribozyme enzyme rna molecule instead peptide rrna help catalyze formation peptide bond important splice intron nucleus complex structure ribosome describe later chapter gene sequence sentence describe protein basic unit letter word know codon translate amino acid genetic code table figure 7.5 serve easy way determine amino acid translate mrna codon codon consist basis 64 codon note codon write 5′ 3′ direction code unambiguous codon specific amino acid figure 7.5 genetic code codon represent amino acid amino acid represent multiple codon note

codon represent amino acid amino acid represent multiple codon note 61 codon code 20 amino acid codon encode termination translation code universal specie exception mitochondria necessary know mcat translation codon mrna recognize complementary anticodon transfer rna trna anticodon sequence allow trna pair codon mrna base pairing involve orientation interaction antiparallel example aminoacyl trna ile trnaile anticodon sequence 5′—gau—3′ allow pair isoleucine codon 5′ auc—3′ see figure 7.6 figure 7.6 base pairing aminoacyl trna codon mrna preprocessed eukaryotic protein start exact amino acid methionine protein begin methionine codon methionine aug consider start codon translation mrna protein codon encode termination protein translation charge trna molecule recognize codon lead release protein ribosome stop codon uga uaa uag uaa u annoy uga u away uag u go degeneracy wobble genetic code degenerate codon specify single amino acid fact amino acid methionine tryptophan encode multiple codon refer figure 7.5 amino acid multiple codon

basis usually base codon variable refer variable base codon wobble position wobble evolutionary development design protect mutation code region dna mutation wobble position tend call silent degenerate mean effect expression amino acid adverse effect polypeptide sequence amino acid glycine example require nucleotide codon gg nucleotide c g u amino acid composition protein remain degeneracy genetic code allow mutation dna result alter protein structure function usually mutation intron change protein sequence intron cleave mrna transcript prior missense nonsense mutation mutation occur affect nucleotide codon know point mutation discuss silent point mutation wobble position point mutation severe detrimental effect depend mutation occur genome point mutation affect primary amino acid sequence protein call express mutation express point mutation fall category missense nonsense missense mutation mutation amino acid substitute nonsense mutation mutation codon encode premature stop codon know truncation mutation nucleotide codon refer reading frame point mutation occur nucleotide change frameshift mutation occur number nucleotide add

mutation occur nucleotide change frameshift mutation occur number nucleotide add delete mrna sequence insertion deletion nucleotide shift reading frame usually result change amino acid sequence premature truncation protein effect frameshift mutation typically point mutation heavily dependent dna sequence mutation actually occur synopsis different type mutation find figure 7.7 common type mutation dna cystic fibrosis commonly cause frameshift mutation deletion codon 508 polypeptide chain cftr chloride channel gene subsequent loss phenylalanine residue position result defective chloride ion channel alter protein reach cell membrane lead block passage salt water cell result blockage cell line passageway lung pancreas organ produce abnormally thick sticky mucus trap bacteria increase likelihood infection patient mcat concept check 7.1 assess understanding material question 1 role main type rna 2 base sequence list dna sequence figure 7.5 amino acid encode sequence transcription 3 mrna codon start codon amino acid code mrna codon stop codon start codon

code stop codon 4 wobble role serve 5 mutation list change dna sequence observe effect encode peptide type mutation change dna sequence effect encode protein type mutation change dna sequence effect encode protein chapter 7.2 able explain eukaryotic rna polymerase ii iii impact identify rna polymerase bind start transcription dna strand determine mrna result give hnrna molecule dna contain actual code sequence protein machinery generate protein locate cytoplasm dna leave nucleus quickly degrade use rna transmit genetic information creation mrna dna template know transcription mrna type rna carry information dna directly type rna exist play important role protein translation transfer rna trna ribosomal rna rrna mechanism transcription transcription produce copy strand dna initiation transcription enzyme include helicase topoisomerase involve unwind double stranded dna prevent formation supercoil describe chapter 6 mcat biochemistry review step important allow transcriptional machinery access dna particular gene interest transcription result single strand mrna synthesize nucleotide strand dna call template

result single strand mrna synthesize nucleotide strand dna call template strand antisense strand newly synthesize mrna strand antiparallel complementary dna template strand transcribe information use language write like court judge ask court reporter read transcript reporter speak language write translation exactly say change language rna translation change language nucleotide amino acid rna synthesize dna dependent rna polymerase rna polymerase locate gene search specialized dna region know promoter region eukaryote rna polymerase ii main player transcribe mrna binding site promoter region know tata box name high concentration thymine adenine basis transcription factor help rna polymerase locate bind promoter region dna help establish transcription start unlike dna polymerase iii review dna replication rna polymerase require primer start generate eukaryote type rna polymerase involve transcription mrna rna polymerase locate nucleolus synthesize rrna rna polymerase ii locate nucleus synthesize hnrna pre processed mrna small nuclear rna snrna rna polymerase iii locate nucleus synthesize trna rrna transcription subject 5′ 3′ rule like dna synthesis

synthesis nucleic acid occur 5′ 3′ direction rna polymerase travel template strand 3′ 5′ direction allow construction transcribe mrna 5′ 3′ direction unlike dna polymerase rna polymerase proofread work synthesize transcript edit code strand sense strand dna template transcription code strand complementary template strand identical mrna transcript thymine nucleotide dna replace uracil mrna molecule vicinity gene numbering system identify location important basis dna strand show figure 7.8 base transcribe dna rna define +1 base gene region basis left start point upstream 5′ end give negative number 1 2 3 basis right downstream 3′ end denote positive number +2 +3 +4 nucleotide gene number 0

tata box rna polymerase ii bind usually fall 25 figure 7.8 transcription dna hnrna transcription continue dna code region rna polymerase reach termination sequence stop signal result termination transcription dna double helix form primary transcript form term heterogeneous nuclear rna hnrna mrna derive hnrna posttranscriptional modification describe mcat commonly test post transcriptional processing 3′ poly tail hnrna leave nucleus translate protein undergo specific process allow interact ribosome survive condition cytoplasm demonstrate figure 7.9 think nucleus happy home cell dna strand caregiver hnrna child child mature order survive figure 7.9 process eukaryotic hnrna form mrna intron stay nucleus exon exit nucleus mrna splicing intron exon maturation hnrna include splice transcript remove noncode sequence intron ligate code sequence exon splice accomplish spliceosome spliceosome small nuclear rna snrna molecule couple protein know small nuclear ribonucleoprotein know snrnp snurp snrnp snrna complex recognize 5′ 3′ splice site intron noncode sequence excise form lariat lasso shaped structure degrade evolutionary function intron eukaryotic cell currently well- understand scientist hypothesize intron play important role regulation cellular gene expression level maintain size genome existence intron hypothesize allow rapid protein evolution eukaryotic protein share peptide sequence common suggest gene encode particular peptide employ modular function contain standard sequence swap depend need cell 5′ end hnrna molecule 7 methylguanylate triphosphate cap add cap

actually add process transcription recognize ribosome bind site protect mrna degradation cytoplasm 3′ poly tail polyadenosyl poly tail add 3′ end mrna transcript protect message rapid degradation compose adenine basis think poly tail fuse time bomb mrna transcript soon mrna leave nucleus start degrade 3′ end long poly tail time mrna able survive digest cytoplasm poly tail assist export mature mrna nucleus point exon remain cap tail add cell create mature mrna transport cytoplasm protein translation untranslated region mrna utrs exist 5′ 3′ edge transcript ribosome initiate

region mrna utrs exist 5′ 3′ edge transcript ribosome initiate translation start codon aug end stop codon uaa uga uag mutation splice site lead abnormal protein example mutation interfere proper splicing β globulin mrna responsible case β- thalassemia group blood disorder hinder production efficacy hemoglobin blood splice site mutation mutation noncode dna effect translate protein gene eukaryotic cell primary transcript hnrna splice different way produce multiple variant protein encode original gene process know alternative splicing illustrate figure 7.10 utilize alternative splicing organism different protein limited number gene reference human estimate 100,000 protein number human gene 20,000–25,000 worry memorize number constantly change new research alternative splicing know function regulation gene expression addition generate protein diversity figure 7.10

alternative splicing eukaryotic hnrna produce different mcat concept check 7.2 assess understanding material question 1 role eukaryotic rna polymerase rna polymerase rna polymerase ii rna polymerase iii 2 start transcription rna polymerase bind 3 major posttranscriptional modification turn hnrna 4 alternative splicing accomplish chapter 7.3 able describe step translation initiation elongation termination distinguish different type posttranslational modification phosphorylation glycosylation explain role functional site ribosome mrna transcript create process exit nucleus nuclear pore cytoplasm mrna find ribosome begin process translation convert mrna transcript functional protein translation

complex process require mrna trna ribosome amino acid energy form gtp mention early anticodon trna bind codon mature mrna ribosome ribosome compose protein rrna prokaryote eukaryote large small subunit subunit bind protein synthesis structure ribosome dictate main function bring mrna message charge aminoacyl trna complex generate protein bind site ribosome trna site aminoacyl p site peptidyl e site exit describe section translation terminology 5′ 3′ dna dna = replication new dna synthesize 5′ 3′ direction dna rna = transcription new rna synthesize 5′ 3′ direction template read 3′ 5′ rna protein = translation mrna read 5′ 3′ direction eukaryotic ribosome contain strand rrna designate 28s 18s 5.8s 5s rrna s value indicate size strand gene rrna 28s 18s 5.8s rrna construct ribosome find nucleolus rna polymerase transcribe 28s 18s 5.8s rrna single unit nucleolus result 45s ribosomal precursor rna 45s pre- rrna process 18s rrna 40s small ribosomal subunit 28s 5.8s rrna 60s large ribosomal subunit rna polymerase iii transcribe 5s rrna find 60s

ribosomal subunit process take place outside nucleolus ribosomal subunit create 60s 40s subunit subunit join protein synthesis form 80s ribosome fact prokaryotic eukaryotic ribosome slightly different structure small fact difference allow target antibiotic like macrolide azithromycin erythromycin tetracycline doxycycline vancomycin bacterial cell few effect human comparison eukaryote prokaryote 50s 30s large small subunit assemble create complete 70s ribosome note s value determine experimentally study behavior particle ultracentrifuge number subunit rrna additive base size shape size structure eukaryotic prokaryotic ribosome show figure 7.11 composition prokaryotic eukaryotic ribosomes mechanism translation translation occur cytoplasm prokaryote eukaryote prokaryote ribosome start translate mrna complete eukaryote transcription translation occur separate time separate location cell process translation occur stage show figure 7.12 initiation elongation termination specialized factor initiation initiation factor elongation elongation factor ef termination release factor rf gtp require step figure 7.12 step translation small ribosomal subunit bind mrna prokaryote small subunit bind shine dalgarno sequence 5′

untranslated region mrna eukaryote small subunit bind 5′ cap structure charged initiator trna bind aug start codon base- pairing anticodon p site ribosome initial amino acid prokaryote n formylmethionine fmet eukaryote large subunit bind small subunit form complete initiation complex assist initiation factor permanently associate ribosome elongation step cycle repeat amino acid add protein initiator methionine elongation ribosome move 5′ 3′ direction mrna synthesize protein amino n- carboxyl c- terminus ribosome contain important binding site site hold incoming aminoacyl trna complex amino acid add grow chain determine mrna codon site p site hold trna carry grow polypeptide chain amino acid methionine bind start polypeptide chain peptide bond form polypeptide pass trna p site trna site require peptidyl transferase enzyme large subunit gtp energy formation e site show figure 7.12 inactivate uncharged trna pause transiently exit ribosome uncharge trna enter e site quickly unbind mrna ready recharge order site ribosome

e site quickly unbind mrna ready recharge order site ribosome translation ape elongation factor ef assist locate recruit aminoacyl trna gtp help remove gdp energy eukaryotic protein contain signal sequence designate particular destination protein show figure 7.13 peptide secrete hormone digestive enzyme signal sequence direct ribosome endoplasmic reticulum er protein translate directly lumen rough er protein send golgi apparatus secrete vesicle exocytosis signal sequence direct protein nucleus lysosome cell membrane figure 7.13 synthesis secretory membrane lysosomal protein stop codon move site protein call release factor rf bind termination codon cause water molecule add polypeptide chain addition water molecule allow peptidyl transferase termination factor hydrolyze complete polypeptide chain final trna polypeptide chain release trna p site ribosomal subunit dissociate nascent polypeptide chain subject posttranslational modification function protein similar hnrna modify prior release nucleus essential step final synthesis protein proper folding specialized class protein call chaperone main function assist protein modify cleavage event common example insulin need cleave large inactive peptide achieve active form peptide signal sequence signal

sequence cleave protein enter organelle accomplish function peptide quaternary structure subunit come form functional protein classic example hemoglobin compose alpha chain beta chain biomolecule add peptide follow process posttranslational modification important proper protein functioning example clotting factor include prothrombin require posttranslational carboxylation glutamic acid residue order function properly vitamin k require cofactor reaction vitamin k deficiency result phosphorylation addition phosphate group po2 4 protein kinase activate deactivate protein phosphorylation eukaryote commonly see serine threonine carboxylation addition carboxylic acid group usually serve calcium bind site glycosylation addition oligosaccharide protein pass er golgi apparatus determine cellular destination prenylation addition lipid group certain membrane bind biochemistry guide example expert profilin pfn family actin monomer bind protein strongly inhibit spontaneous elongation

pointed end actin filament promote barb ended elongation addition atp bind monomeric actin actin polymerization fundamental component physiological property goal study elucidate regulation pfn1 abundant isoform pfn mammal intro topic pfn regulation pfn1 pfn1 know phosphorylate tyrosine serine residue sequence analysis software threonine-89 identify possible phosphorylation site protein kinase pka examine role threonine-89 pfn1 expression pfn1 construct create t89d t89a.

human embryonic kidney cell hek-293 express indicate green fluorescent protein fuse pfn1 gfp pfn1 construct gfp pfn1 t89d t89a wild- type lyse non denaturing contain 1 np-40 denaturing contain 1 np-40 2 sds mild denaturant buffer 6 m urea strong denaturant addition extraction buffer misfolded protein generally insoluble denaturant present hek-293 lysate subject western blot lysate immunoblotte anti tubulin antibody loading control anti gfp antibody anti- pfn1 antibody specific endogenous pfn1 t89d t89a mutant analyze role cell express 3 construct break apart 3 type solution non- mild ignore result tubulin construct pfn1 express cell lot info focus change gfp row show change probably adapt gau d. veon w. zeng x.

yates n. shroff s. g. koes d. r. roy p. 2016 threonine 89 important residue profilin-1 phosphorylatable protein kinase a. purpose mutate potential phosphorylation site aspartic acid alanine respectively implication expression question ask reason experimental design focus understand way experiment design passage focus clarify phosphorylation regulate pfn1 know content background phosphorylation amino acid specifically serine threonine tyrosine turn polar amino acid negatively charged remember infer think charge phosphate group highly negative information answer question mutate threonine phosphorylation site aspartic acid negatively charge mimic site constantly phosphorylate mutate alanine mimic site constantly dephosphorylate alanine residue possible phosphorylation site t89 identify gfp construct mimic phosphorylation t89d lane 1–3 eliminate phosphorylation t89a lane 4–6 unmodified lane 7–9 gfp tag allow experimenter gfp fuse construct express protein tell experimental procedure western blot technique specific antibody interest bind protein separate gel western blot band appear antibody successfully bind protein row gel image display

experimental condition lane lane 1 np-40 tell non denaturing recall word denaturing mean substance change 3 d structure protein non denaturing mean np-40 will change shape protein lane 2 sds mild denaturing condition lane 2 sds 6 m urea strong denature condition continue definition know strong denature condition unfold solubilize protein greatly change 3 d structure look row probe gfp band non- mild denaturing condition faint band strong denature condition t89d construct lane wild type t89a regardless condition finally recall phosphorylation post- translational event change phosphorylation state protein occur pfn1 translate work affect expression conclude mutate threonine residue mimic effect constantly phosphorylate dephosphorylate pfn second gfp band t89d presence strong denaturant phosphorylation pfn1 cause protein fold way make insoluble target protein degradation follow study require verify exact mechanism action occur t89d represent phosphorylate version pfn1 t89d appear gel strongly denature condition conclude pfn1 phosphorylate available express conclude

phosphorylation pfn1 potentially regulate availability pfn1 usage actin mcat concept check 7.3 assess understanding material question 1 step translation 2 role site ribosome 3 major posttranslational modification occur protein 7.4 control gene expression chapter 7.4 able recognize transcriptional control key operon lac trp differentiate positive negative control system explain role different section standard operon organism dna encode rna protein molecule require construct cell organism able differentially express gene cell specific product necessary cellular development specific time section look process eukaryotic cell focus regulatory process govern gene expression prokaryote rule necessary determine subset gene selectively express silence prokaryotic cell simple example switch regulate gene expression level prokaryote discover e. coli regulate expression gene accord food source available environment example gene

e. coli encode enzyme manufacture amino acid tryptophan arrange cluster chromosome share single common promoter region dna sequence gene transcribe group type structure call operon cluster gene transcribe single mrna particular cluster e. coli know trp operon operon incredibly common prokaryotic cell jacob monod model describe structure function operon model operon contain structural gene operator site promoter site regulator gene show figure 7.14 structural gene code protein interest upstream structural gene operator site nontranscribable region dna capable bind repressor protein upstream promoter site similar function promoter eukaryote provide place rna polymerase bind furthest upstream regulator gene code protein know repressor type operon inducible system repressible system figure 7.14 inducible systems allow gene transcription inducer present bind present repressor protein operon include inducible repressible system offer simple switch gene control prokaryote inducible system repressor bond tightly operator system act roadblock rna polymerase unable promoter structural gene repressor way system binding protein reduce transcriptional activity call negative control mechanism remove block inducer bind repressor protein rna polymerase gene show figure 7.14 inducible system operate principle analogous

competitive inhibition enzyme activity concentration inducer increase pull copy repressor operator region free gene transcription system useful allow gene product produce need negative control binding protein dna stop transcription positive control binding protein dna increase transcription inducible system system normally turn give repressible system system normally turn give combination control system possible lac operon negative inducible system trp operon negative repressible system classic example inducible system lac operon contain gene lactase demonstrate figure 7.15 bacteria digest lactose energetically expensive digest glucose bacteria want use option lactose high glucose low lac operon induce presence lactose gene transcribe useful cell figure 7.15 lac operon example inducible system lac operon assist bind catabolite activator

protein cap cap transcriptional activator e. coli glucose level low signal alternative carbon source fall level glucose cause increase signaling molecule cyclic amp camp bind cap induce conformational change cap allow bind promoter region operon increase transcription lactase gene system binding molecule increase transcription gene call positive control repressible system allow constant production protein product contrast inducible system repressor regulator gene inactive bind corepressor complex bind operator site prevent transcription show figure 7.16 repressible system tend serve negative feedback final structural product serve corepressor level increase bind repressor complex attach operator region prevent transcription gene figure 7.16 repressible systems continually allow gene transcription corepressor bind repressor stop transcription trp operon describe operate way

negative repressible system tryptophan high local environment act corepressor binding molecule tryptophan repressor cause repressor bind operator site cell turn machinery synthesize tryptophan energetically expensive process easy availability mcat concept check 7.4 assess understanding material question 1 type operon trp operon lac operon 2 5′ 3′ component operon role 3 positive control system negative control system positive control

system negative control system 7.5 control gene expression chapter 7.5 able identify different mechanism regulate amplify expression gene predict histone dna modification affect ratio heterochromatin genomic expression eukaryote considerably complex prokaryote need know difference test day regulation gene expression essential feature help maintain overall functionality cell addition basic transcriptional enzyme host regulatory protein play prominent role control gene expression level transcription factor transcription activate protein search dna look specific dna bind motif transcription factor tend recognizable domain dna bind domain activation domain dna bind domain bind specific nucleotide sequence promoter region dna response element sequence dna bind specific transcription factor help recruitment transcriptional machinery activation domain allow binding transcription factor important regulatory protein rna polymerase histone acetylase function remodeling chromatin structure dna regulatory base sequence promoter enhancer response element know cis regulator vicinity gene control transcription factor produce translocate nucleus call trans regulator travel cell point action transcription complex form basal low level transcription begin maintain moderate adequate level protein encode gene cell time expression increase amplify response specific signal hormone growth factor intracellular condition eukaryotic cell accomplish enhancer gene duplication response element outside normal promoter region recognize specific transcription factor enhance transcription level response element group form enhancer allow control gene expression multiple signal figure 7.17 demonstrate eukaryotic example enhancer signal molecule cyclic amp camp cortisol estrogen bind specific receptor example give receptor cyclic amp response element bind protein creb glucocorticoid cortisol receptor estrogen receptor respectively transcription factor bind respective response

cortisol receptor estrogen receptor respectively transcription factor bind respective response element enhancer protein involve process outside scope mcat note large distance enhancer promoter region give gene mean dna bend hairpin loop bring element spatially figure 7.17 stimulation transcription enhancer associate enhancer region dna 1000 base pair away gene

regulate locate intron noncoding region gene differ upstream promoter element location upstream promoter element 25 basis start gene utilize enhancer region gene increase likelihood amplify variety signal increase cell increase expression gene product duplicate relevant gene gene duplicate series chromosome yield copy row genetic information gene duplicate parallel open gene helicase permit dna replication gene cell continue replicate gene hundred copy gene exist parallel regulation chromatin structure eukaryotic cell dna package nucleus chromatin require chromatin remodeling allow transcription factor transcriptional machinery easy access dna heterochromatin tightly coil dna appear dark microscope tight coiling make inaccessible transcription machinery gene inactive euchromatin hand loose appear light microscope transcription machinery access gene interest gene active remodeling chromatin structure regulate gene expression level cell transcription factor bind dna recruit coactivator histone acetylase protein involved chromatin remodeling show figure 7.18 acetylate lysine residue find amino terminal tail region histone protein acetylation histone protein decrease positive charge lysine residue weaken interaction histone dna result open chromatin conformation allow easy access transcriptional machinery dna figure 7.18 chromatin remodeling acetylation increase space histone allow well access dna transcription factor specific pattern histone acetylation lead increase gene expression level hand gene silencing occur easily chromatin remodeling histone deacetylase protein function remove acetyl group histone result close chromatin conformation overall decrease gene expression level cell dna methylation involve chromatin remodeling regulation gene expression level cell dna methylase add methyl group cytosine adenine nucleotide methylation gene link silencing gene expression development methylation play important role silence gene long need activate heterochromatin region dna

important role silence gene long need activate heterochromatin region dna heavily methylate hinder access transcriptional machinery dna mcat concept check 7.5 assess understanding material question 1

enhancer difference signal molecule transcription factor response element 2 histone dna modification gene silence eukaryotic cell process increase proportion heterochromatin euchromatin carry function life produce 100,000 different protein 20,000–25,000 available gene protein biosphere produce central dogma molecular biology gene dna transcribe mrna translate functional protein complex highly regulated process prokaryote eukaryote question transcription translation regulation frequent mcat chapter focus important role play organelle cell include nucleus nucleolus ribosome rough endoplasmic reticulum golgi apparatus secrete protein hormone digestive enzyme produce way plasma membrane exocytosis stop examine chapter structure function biochemistry biological review content test knowledge critical thinking skill complete test like passage set online resource genetic code central dogma state dna transcribe rna translate protein degenerate code allow multiple codon encode initiation start codon aug termination stop codon uaa uga uag redundancy wobble base codon allow mutation occur effect protein point mutation cause silent mutation effect protein synthesis nonsense truncation mutation produce premature stop missense mutation produce codon code different frameshift mutation result nucleotide addition deletion change reading frame subsequent codon rna structurally similar dna substitution ribose sugar deoxyribose substitution uracil thymine single stranded instead double stranded type rna separate job transcription messenger rna mrna carry message dna nucleus transcription gene travel cytoplasm transfer rna trna bring amino acid recognize codon mrna anticodon ribosomal rna rrna make ribosome helicase unwind dna double helix rna polymerase ii bind tata box promoter region gene 25 base pair upstream transcribe hnrna synthesize dna template antisense strand posttranscriptional modification include 7 methylguanylate triphosphate cap add 5′ end polyadenosyl poly tail add 3′ end splicing snrna snrnp spliceosome intron remove lariat structure exon ligate prokaryotic cell increase variability gene product transcript polycistronic gene start transcription different site gene lead different eukaryotic cell increase variability gene product alternative splicing combine different exon modular fashion acquire

different gene

alternative splicing combine different exon modular fashion acquire different gene product trna translate codon correct amino acid ribosome factory translation protein synthesis stage translation initiation prokaryote occur 30s ribosome attach shine dalgarno sequence scan start codon lay n formylmethionine p site ribosome initiation eukaryote occur 40s ribosome attach 5′ cap scan start codon lay methionine p site ribosome elongation involve addition new aminoacyl trna site ribosome transfer grow polypeptide chain trna p site trna site uncharged trna pause e site exit termination occur codon site stop codon release factor place water molecule polypeptide chain release protein initiation elongation release factor help step recruitment assembly disassembly ribosome posttranslational modification include folding chaperone formation quaternary structure cleavage protein signal sequence covalent addition biomolecule phosphorylation carboxylation glycosylation prenylation control gene expression prokaryote jacob monod model repressor activator explain operon inducible repressible cluster gene transcribe single mrna inducible system lac operon bond repressor normal condition turn inducer pull repressor operator site repressible system trp operon transcribe normal condition turn corepressor coupling repressor binding complex operator control gene expression eukaryotes transcription factor search promoter enhancer region promoters 25 base pair transcription start site enhancer 25 base pair away transcription modification chromatin structure affect ability transcriptional enzyme access dna histone acetylation increase accessibility dna methylation decrease answer concept check 1 mrna carry information dna travel nucleus transcribe cytoplasm translate trna translate nucleic acid amino acid pair anticodon mrna codon charge amino acid add grow peptide chain rrna form structural catalytic component ribosome act ribozyme create peptide bond amino acid 2 gat mrna codon = auc isoleucine ile att mrna codon = aau asparagine asn cgc mrna codon = gcg alanine ala cca mrna codon = ugg tryptophan trp 3 start codon aug code methionine stop codon uaa uga uag 4 wobble refer fact base codon play

uaa uga uag 4 wobble refer fact base codon play role determine amino acid translate codon example codon start cc code proline regardless base wobble position protective mutation wobble position effect protein translate gene change dna sequence effect encode protein substitution basis wobble position intron change observe substitution base create mrna codon match different amino acid amino acid change protein variable effect function depend substitution base create stop codon early truncation protein variable effect function usually severe missense mutation insertion deletion basis create shift reading frame mrna change amino acid site insertion deletion usually severe type list 1 rna polymerase synthesize rrna rna polymerase ii synthesize mrna hnrna snrna rna polymerase iii synthesize trna rrna 2 rna polymerase ii bind tata box locate promoter region relevant gene 25 3

major posttranscriptional modification

splicing removal intron joining exon use snrna snrnp spliceosome create lariat degrade exon ligate 5′ cap addition 7 methylguanylate triphosphate cap 5′ end transcript 3′ poly tail addition adenosine basis 3′ end protect 4 alternative splicing ability gene use combination exon create multiple protein hnrna transcript increase protein diversity allow species maximize number protein create limited number 1 initiation elongation termination 2 site bind incoming aminoacyl trna codon anticodon p site hold grow polypeptide peptidyl transferase form peptide bond polypeptide hand site e site transiently hold uncharged trna exit ribosome 3 posttranslational modification include proper folding chaperone formation quaternary structure cleavage protein signal sequence addition biomolecule phosphorylation carboxylation glycosylation prenylation 1 trp operon negative repressible system lac operon negative inducible system transcribe form repressor protein site rna polymerase bind similar promoter eukaryote binding site repressor protein gene interest transcription dependent repressor absent operator site 3 positive control system require binding protein operator site

increase transcription negative control system require binding protein operator site decrease transcription 1 signal molecule include steroid hormone second messenger bind receptor nucleus receptor transcription factor use dna bind domain attach particular sequence dna call response element bond response element transcription factor promote increase expression relevant gene 2 histone deacetylation dna methylation downregulate transcription gene process allow relevant dna clump tightly increase proportion heterochromatin science mastery assessment peptidyl transferase enzyme catalyze formation peptide bond incoming amino acid site grow polypeptide chain p site initiation elongation factor help transport charge trna molecule ribosome advance ribosome mrna transcript b chaperone maintain protein dimensional shape form c promoter function recruitment site rna polymerase require gene expression mutation region hinder rna polymerase recruitment result decrease gene expression observation support c correct answer contrast mutation operator regulatory gene render repressor able block transcription lead opposite effect i.e. increase lactase expression result eliminate

transcription lead opposite effect i.e. increase lactase expression result eliminate b finally mutation structural gene lead production nonfunctional enzyme unlikely affect gene expression eliminate d topoisomerase prokaryotic dna gyrase involve dna replication mrna synthesis transcription dna gyrase type topoisomerase enhance action helicase enzyme introduction negative supercoil dna molecule negative supercoil facilitate dna replication keep strand separate different codon valine guu guc gua gug base pairing determine proper anticodon end ac remember codon anticodon antiparallel nucleic acid write 5′ 3′ mcat look answer end ac start specific transcription factor bind specific dna sequence enhancer rna polymerase single promoter sequence enable rna polymerase transcribe specific gene enhancer uag know stop codon change tyrosine stop codon nonsense truncation mutation question correct answer answer associate increase transcription dna methylation c associate silencing gene expression region dna poor gene expression call heterochromatin heavily

methylate modification significantly decrease ability rna polymerase access dna example give sample repression abundance corepressor word repressible system currently block transcription trp operon abundance tryptophan environment allow repressor bind tryptophan operator site block transcription gene require synthesize tryptophan cell system describe repressible system lac operon inducible system inducer bind repressor permit transcription shrna short hairpin rna useful biotechnology tool rna interference produce nucleus use spliceosome target mrna degrade cytoplasm utilize splicing hnrna heterogeneous nuclear rna snrna small nuclear rna snrnp small nuclear ribonucleoprotein bind hnrna induce splicing table give sequence sense code dna strand identical mrna transcript thymine nucleotide replace uracil deletion basis codon 507 change auc auu transcript code isoleucine wobble codon 508 uuu transcript lose uuu code phenylalanine c terminus sequence remain unchanged deletion basis exactly codon throw reading frame reference mutant reading frame note refer figure 7.5 table genetic code intron final process mrna untranslated region mrna turn amino acid translation begin codon 1 aug 150 amino acid

amino acid translation begin codon 1 aug 150 amino acid surmise 151 codon codon use 3 nucleotide 150 × 3 = 450 codon 151 peptidyl transferase connect incoming amino terminal previous carboxyl terminal functional group list carbonyl amino group amide peptide bond amide linkage correct answer b rna polymerase eukaryote find nucleolus charge transcribe rrna use ribosomal creation rna polymerase ii responsible hnrna snrna rna polymerase iii responsible trna 5s rrna answer question correctly remember mrna antiparallel dna answer 5′ 3′ mrna 5′ end complementary 3′ end dna transcribe mrna transcribe strand 5′—ggaugucucaaaga 3′.

mrna contain uracil thymine mrna produce structure sense strand dna uracil instead thymine bonding nucleic acid complementary antiparallel antisense strand mrna bind produce mrna create double- stranded rna degrade find cytoplasm consult online resource additional

practice biochemistry chapter 1 amino acid peptide protein biochemistry chapter 2 biochemistry chapter 6 dna biotechnology biology chapter 1 biology chapter 3 embryogenesis development biology chapter 12 genetics evolution pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read corresponding subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 student try determine type membrane transport occur cell student find molecule transport large polar transport membrane energy require following likely mechanism transport a. active transport b. simple diffusion c. facilitate diffusion 2 researcher treat solution contain animal cell ouabain poisonous substance interfere sodium potassium atpase embed cell membrane cell lysis result follow statement well describe ouabain effect a. treatment ouabain result high level extracellular b. treatment ouabain result high level extracellular potassium sodium c. treatment ouabain increase intracellular concentration d. treatment ouabain decrease intracellular concentration 3 rest membrane potential depend

i. differential distribution ion membrane ii active transport process iii selective permeability phospholipid bilayer a. b. iii c. ii iii d. ii iii 4 follow function cell membrane a. cytoskeletal attachment b. protein synthesis c. transport regulation d. second messenger reservoir 5 dynamic property molecule cell membrane rapid a. phospholipid move plane membrane b.

phospholipid move layer membrane c. protein move plane membrane d. protein exit cell exocytosis 6 lipid type likely contribute membrane a. unsaturated glycerophospholipid b. trans glycerophospholipid d. unsaturated sphingolipid 7 membrane receptor likely a(n a. embed protein catalytic activity b. transmembrane protein sequestration activity c. membrane associate protein sequestration activity d. transmembrane protein catalytic activity 8 follow cell cell junction animal b. gap junction d. tight junction 9 follow true diffusion osmosis a. diffusion osmosis rely concentration gradient compound interest b. diffusion osmosis rely concentration gradient compound cell c. diffusion osmosis proceed direction solute d. diffusion osmosis occur simultaneously 10 bulk movement liquid cell vesicular infolding know 11 follow likely rest membrane potential cell a. 70 mv b. 55 mv c. 0 mv d. +35 mv 12 inner mitochondrial membrane differ outer a. inner mitochondrial membrane permeable b. inner mitochondrial membrane permeable c. inner mitochondrial membrane permeable d. inner mitochondrial membrane permeable 13 cell extracellular calcium concentration 10,000 time high intracellular calcium concentration membrane potential establish a. 123 mv b. 61.5 mv c. +61.5 mv d. +123 mv 14 follow statement

conflict fluid mosaic a. cell membrane static structure b. membrane component derive multiple c. hydrophobic interaction stabilize lipid bilayer d. protein asymmetrically distribute cell 15 follow sphingolipid chapter 8.1 fluid mosaic model general membrane structure function 8.2 membrane component 8.3 membrane transport endocytosis exocytosis 8.4 specialized membranes content chapter relevant 10 question biochemistry mcat chapter cover material following aamc content category 2a assembly molecule cell group cell single cellular multicellular organism 3a structure function nervous endocrine system way system coordinate biological membrane stunning combination opposite contrast exceptionally thin structurally bland relatively straightforward describe define border cell tissue organelle carry significant number biological function cell unending source scientific inquiry discovery commonly test biological membrane mcat plasma membrane plasma membrane like shell barrier define cell

plasma membrane play role signaling entry nutrient expulsion waste cell recognition transport material tissue electronic function cell membrane stretchy flexible component phospholipid abundance stabilize molecule cholesterol protein sure remain intact chapter examine general function composition transport property biological membrane conclude take look specialized cell membrane body addition specific membrane property 8.1 fluid mosaic model chapter 8.1 able describe function flippase lipid raft order give list membrane component abundant cell plasma membrane describe semipermeable phospholipid bilayer phrase describe function structure cell membrane semipermeable barrier choose particle enter leave cell point time selectivity mediate channel carrier poke hole membrane membrane compose primarily layer phospholipid cell membrane permit fat soluble compound cross easily large water soluble compound seek alternative entry cell membrane illustrate figure 8.1 theory underlie structure function cell membrane refer fluid mosaic figure 8.1 cell membrane cell membrane phospholipid bilayer regulate movement solute cell general membrane structure function phospholipid bilayer include protein distinct signaling area lipid raft carbohydrate associate membrane bind protein create glycoprotein coat cell wall plant bacteria fungus contain high level carbohydrate main function cell membrane

bacteria fungus contain high level carbohydrate main function cell membrane protect interior cell external environment cellular membrane selectively regulate traffic cell involve intracellular intercellular communication transport cell membrane contain protein embed lipid bilayer act cellular receptor signal transduction protein play important role regulate maintain overall cellular cell membrane function stable semisolid barrier cytoplasm environment constant state flux molecular level phospholipid rapidly plane membrane simple diffusion see fuse membrane tag different label tag migrate associate lipid type rapidly intermix lipid raft collection similar lipid associate protein serve attachment point biomolecule raft serve role signaling lipid raft protein travel plane membrane slowly lipid membrane layer energetically unfavorable polar head group phospholipid force nonpolar tail region interior membrane

specialized enzyme call flippase assist transition flip layer dynamic change concentration membrane protein mediate gene regulation endocytotic activity protein insertion cell particularly involve biosignale process up- downregulate number specific cellular receptor surface order meet cellular requirement antidepressant increase level neurotransmitter brain effect long appear change neurochemistry reason delay nervous system upregulate postsynaptic receptor respond new level neurotransmitter mcat concept check 8.1 assess understanding material question 1 describe role flippase lipid raft biological membrane 2 list following membrane component order plentiful plentiful carbohydrate lipid protein nucleic acid 8.2 membrane component chapter 8.2 able describe role cholesterol cell membrane define class membrane protein transmembrane embed membrane associate differentiate gap junction tight junction desmosome hemidesmosome identify level saturation hydrophilic hydrophobic portion phospholipid fluid mosaic model outline general composition membrane mcat expect strong grasp specific especially pertain lipid protein cell membrane compose predominantly lipid associate protein carbohydrate time cell membrane refer phospholipid bilayer primary component barrier cell cell membrane large number phospholipid free fatty acid addition steroid molecule cholesterol lend fluidity membrane wax provide membrane stability help maintain structural integrity cell structural detail lipid discuss detail chapter 5 mcat

integrity cell structural detail lipid discuss detail chapter 5 mcat biochemistry review briefly describe key point trans fat result partial hydrogenation unsaturated fatty acid ban certain store city health risk health concern ability lower membrane fluidity addition tendency trans fat accumulate form plaque blood vessel fatty acids triacylglycerols fatty acid carboxylic acid contain hydrocarbon chain terminal carboxyl group triacylglycerol refer triglyceride storage lipid involve human metabolic process contain fatty acid chain esterify glycerol molecule fatty acid chain saturated unsaturated unsaturated fatty acid regard healthy fat tend double bond exist liquid form room temperature plasma membrane characteristic impart fluidity

membrane human synthesize unsaturated fatty acid rest come essential fatty acid diet transport triacylglycerol intestine inside chylomicron important essential fatty acid human α linolenic acid linoleic acid saturated fatty acid main component animal fat tend exist solid room temperature saturated fat find process food consider healthy incorporate phospholipid membrane saturate fatty acid decrease overall membrane fluidity substitute fatty acid chain triacylglycerol phosphate group polar head group join nonpolar tail form glycerophospholipid commonly call phospholipid phospholipid spontaneously assemble micelle small monolayer vesicle liposome bilayered vesicle hydrophobic interaction glycerophospholipid membrane synthesis produce hydrophilic surface layer lipoprotein very- low density lipoprotein vldl lipid transporter addition phospholipid primary component cell membrane phospholipid serve structural role serve second messenger signal transduction phosphate group provide attachment point water soluble group choline phosphatidylcholine know lecithin inositol phosphatidylinositol comparison triacylglycerol glycerophospholipid show figure 8.2 figure 8.2 triacylglycerol glycerophospholipid phosphatidylinositol ratio certain sphingolipid glycerophospholipid help identify particular membrane cell memorize information unnecessary test day small detail like important provide passage sphingolipid important constituent cell membrane sphingolipid contain glycerol similar structure glycerophospholipid contain hydrophilic region fatty acid derive hydrophobic tail class sphingolipid show figure 8.3 differ primarily identity hydrophilic region class sphingolipid hydrophilic group include ceramide sphingomyelin cerebroside ganglioside figure 8.3 type

hydrophilic group include ceramide sphingomyelin cerebroside ganglioside figure 8.3 type sphingolipids sphingolipid sequentially modify form biologically necessary molecule class cholesterol steroids cholesterol associate number negative health effect receive lot negative press important molecule cell cholesterol regulate membrane fluidity necessary synthesis steroid derive structure cholesterol similar phospholipid cholesterol contain hydrophilic hydrophobic region membrane stability derive interaction hydrophilic hydrophobic region

phospholipid bilayer cholesterol stabilize adjacent phospholipid occupy space prevent formation crystal structure membrane increase fluidity low temperature high temperature cholesterol opposite effect limit movement phospholipid bilayer decrease fluidity help hold membrane intact mass cholesterol compose 20 percent cell membrane mole fraction make half large ratio cholesterol phospholipid ensure membrane remain fluid wax class lipid extremely hydrophobic rarely find cell membrane animal find cell membrane plant wax compose long chain fatty acid long chain alcohol contribute high melting point substance present cell membrane wax provide stability rigidity nonpolar tail region wax serve extracellular function protection waterproofing fluid mosaic model account presence type membrane protein show figure 8.4 transmembrane protein pass completely lipid bilayer embed protein hand associate interior cytoplasmic exterior extracellular surface cell membrane transmembrane embed protein consider integral protein association interior plasma membrane usually assist membrane associate domain partially hydrophobic membrane associate peripheral protein bind electrostatic interaction lipid bilayer especially lipid raft transmembrane embed protein like g protein find g protein couple receptor transporter channel receptor generally transmembrane protein figure 8.4 plasma membrane protein carbohydrate generally attach protein molecule extracellular surface cell carbohydrate generally hydrophilic interaction glycoprotein water form coat cell show figure 8.5 addition carbohydrate act signaling recognition molecule example blood group abo antigen red blood cell sphingolipid differ carbohydrate sequence immune system pathogen advantage membrane carbohydrate membrane protein target figure 8.5 extracellular membrane associate carbohydrates staphylococcus aureus bacteria embed band extracellular polysaccharide glycolipid form biofilm biosignaling major function cell membrane

extracellular polysaccharide glycolipid form biofilm biosignaling major function cell membrane receptor signal cascade cover detail chapter 3 mcat biochemistry review transporter facilitate diffusion active transport activate deactivate membrane receptor tend

transmembrane protein example ligand gate ion channel membrane receptor open channel response binding specific ligand membrane receptor participate biosignaling example g protein couple receptor involve different signal transduction cascade membrane receptor generally protein carbohydrate lipid receptor especially virus cell tissue form cohesive layer intercellular junction junction provide direct pathway communication neighbor cell cell extracellular matrix cell cell junction generally comprise cell adhesion molecule cam protein allow cell recognize contribute proper cell differentiation development gap junction allow direct cell cell communication find small bunche gap junction call connexon form alignment interaction pore compose molecule connexin show figure 8.6 permit movement water solute directly cell protein generally transfer gap junction figure 8.6 gap junction connexon gap junction compose monomer connexin permit travel solute cell tight junction form watertight seal prevent paracellular transport water solute tight junction find lining renal tubule restrict passage solute water cellular control nephron discuss chapter 10 mcat biology review tight junction prevent solute leak space cell paracellular route tight junction find epithelial cell function physical link cell form single layer tissue tight junction limit permeability create transepithelial voltage difference base differ concentration ion epithelium effective tight junction form continuous band cell fluid leak space tight junction desmosome bind adjacent cell anchor cytoskeleton desmosome form interaction transmembrane protein associate intermediate filament inside adjacent cell show figure 8.7 desmosome primarily find interface layer epithelial tissue hemidesmosome similar function main function attach epithelial cell underlie structure especially basement membrane figure 8.7 desmosome adjacent cell mcat concept check 8.2 assess understanding material question 1 follow phospholipid determine fatty acid saturated unsaturated label hydrophobic hydrophilic region 2 cholesterol play role fluidity stability plasma

hydrophobic hydrophilic region 2 cholesterol play role fluidity stability plasma membrane 3 class membrane protein likely function 4 contrast gap junction tight junction biochemistry

guide example expert think transplantation pancreatic islet patient type 1 diabetes hamper inflammatory reaction transplantation site lead dysfunction death insulin produce beta cell recently discover co- transplantation neural crest stem cell ncscs islet cell improve transplantation outcome determine protection obtain release soluble factor direct cell cell contact require investigation conduct describe vitro interaction ncscs insulin produce beta- tc6 cell mediate protection cytokine induce produce cell cause inflammation lead failure transplant possible solution ncscs transplant sure work goal study figure ncscs interact pancreatic cell protect ncscs plate laminin coat plate 0.4 micrometer cell insert day beta tc6 cell add insert allow passage soluble factor direct cell cell contact 48 hour cytokine il-1β ifn β add finally 48 hour later cell label propidium iodide trypsinize analyze cell death flow lot sequential step experimental setup important understand figure specific order cell plate cytometry experiment repeat beta tc6 cell plate ncsc add 48 hour result plot mean independent denote $p < 0.01$ insert iv order cell type plate ecm insert cytokine omit add dv cell death trend significant difference beta cell beta cell ncsc adapt ngamjariyawat a. turpaev k. vasylovska s. kozlova e. n. welsh n.

2013 co culture neural crest stem cell ncsc insulin produce beta tc6 cell result

cadherin junction protection base experiment ncscs protect beta islet cell cytokineinduced cell death direct contact indirect question require datum figure need solid understanding result experimental question ask beta cell require direct contact ncscs ncsc secrete soluble factor mediate protection cytokine mediate cell death need refer passage information phenomenon interact introduction experiment learn co transplantation ncscs beta- cell experiment try determine co transplantation effective transplant beta cell way test experimental setup usage cell insert tell paragraph 2 allow passage factor cell cell contact result left 6 bar correspond ncsc plate beta- cell add insert 6 bar roughly equal addition cytokine induce additional cell death mean result conclusion expect control response beta cell induce cell death presence

cytokine show take look column graph experiment beta cell plate ncscs add 48 hour later insert graph tell presence cytokine beta cell high percentage cell death expect control response have ncscs insert show significant drop cell death effect go away insert reintroduce beta cell ncsc insert high level cell death unclear difference significant insert obstruct cell cell contact conclude direct contact beta cell ncscs require protection cytokine mediate cell death

8.3 membrane transport chapter 8.3 able explain drive factor passive transport mechanism contrast symport antiport mechanism active transport relate osmotic pressure direction osmosis cell membrane function control movement substance cell vary selectivity different substance transport small nonpolar molecule occur rapidly cell membrane diffusion ion large molecule require specialized transport process different membrane traffic process classify active passive drive concentration gradient intracellular energy store important point mind transmembrane movement base concentration gradient mcat favorite understand concentration gradient net point test day remember gradient tell process passive active transport process classify active passive depend thermodynamic spontaneous process require energy negative δg proceed passive transport nonspontaneous require energy positive δg proceed active transport diffusion facilitate diffusion osmosis generally

positive δg proceed active transport diffusion facilitate diffusion osmosis generally increase rate temperature increase active transport affect temperature depend enthalpy δh process primary thermodynamic motivator passive transport increase entropy δs passive transport process require intracellular energy store utilize concentration gradient supply energy particle basic membrane traffic process simple diffusion substrate concentration gradient directly membrane particle freely permeable membrane able undergo simple diffusion potential energy chemical gradient energy dissipate gradient utilize simple diffusion liken process ball roll hill potential energy ball sit hill ball spontaneously roll hill energy dissipate osmolarity explain pure water give intravenously resuscitation red blood cell osmolarity 300 mosm pure water osmolarity 0 mosm water rush red blood cell cause burst avoid saline dextrose contain

solution osmosis specific kind simple diffusion concern water water region low solute concentration high solute concentration region high water concentration dilute solution gradient region low water concentration concentrated solution osmosis important place notably solute impermeable membrane case water try bring solute concentration equimolarity show figure 8.8 concentration solute inside cell high surround solution solution say hypotonic solution cause cell swell water rush point burst lysing solution concentrated cell term hypertonic solution water cell solution inside outside equimolar say isotonic key point isotonicity prevent movement prevent net movement particle water molecule continue cell gain lose water overall figure 8.8 osmosis water move area low solute high water concentration high solute low remember water flow cell place hypotonic solution imagine cell swell form giant letter method quantify drive force osmosis osmotic pressure osmotic pressure colligative property physical property solution dependent concentration dissolve particle chemical identity dissolve particle example colligative property include vapor pressure depression raoult law boiling point elevation freezing point depression illustrate osmotic pressure consider container separate compartment semipermeable membrane like membrane cell compartment contain pure water contain water dissolve solute membrane allow water

contain pure water contain water dissolve solute membrane allow water solute pass substance tend flow diffuse high low concentration result increase entropy water diffuse compartment contain pure water compartment contain water solute mixture net flow cause water level compartment contain solution rise level compartment contain pure water show figure 8.9 figure 8.9 change water level osmotic pressure solute pass membrane concentration solute compartment equal hydrostatic pressure exert water level solute contain compartment eventually oppose influx water water level rise point exert sufficient pressure counterbalance tendency water flow membrane pressure define osmotic pressure π solution give formula m molarity solution r ideal gas constant t absolute temperature kelvin van't hoff

factor simply number particle obtain molecule solution example glucose remain intact molecule iglucose = 1 sodium chloride ion na+ cl inacl = 2 equation clearly show osmotic pressure directly proportional molarity solution osmotic pressure like colligative property depend presence number particle solution actual identity cell osmotic pressure maintain cell membrane force gravity osmotic pressure create solute cell exceed pressure cell membrane withstand cell lyse generally osmotic pressure well think suck pressure draw water cell proportion concentration solution specify semipermeable membrane refer membrane govern permeability rule biological membrane small nonpolar lipid soluble particle water pass freely large polar charged particle facilitate diffusion simple diffusion molecule impermeable membrane large polar charged energy barrier high molecule cross freely facilitate diffusion require integral membrane protein serve transporter channel classic example facilitate diffusion involve carrier channel protein carrier open cell membrane give point model similar revolve door substrate bind transport protein walk remain transporter conformational change spin finally dissociate substrate bind site transporter walk binding substrate molecule transporter protein induce conformational change brief time carrier occluded state carrier open phospholipid bilayer addition carrier channel viable transporter facilitate diffusion channel open closed conformation open conformation channel expose

facilitate diffusion channel open closed conformation open conformation channel expose side cell membrane act like tunnel particle diffuse permit rapid transport kinetic activity main type ion channel discuss chapter 3 mcat biochemistry review active transport result net movement solute concentration gradient like roll ball uphill active transport require energy source energy vary primary active transport use atp energy molecule directly power transport molecule membrane generally primary active transport involve use transmembrane atpase secondary active transport know coupled transport use energy transport particle membrane contrast primary active transport direct coupling atp hydrolysis instead secondary active transport harness energy release particle go electrochemical gradient drive different particle gradient

particle flow direction membrane term symport particle flow opposite direction call antiport active transport important tissue instance primary active transport maintain membrane potential neuron nervous system kidney use secondary active transport usually drive sodium reabsorb secrete solute figure 8.10 show simple diffusion facilitate diffusion active transport table 8.1 summarize type movement osmosis figure 8.10 membrane transport process movement solute cell membrane mediate concentration gradient table 8.1 membrane transport process gradient solute high low low high high low low high passive yes active process require energy glucose ion na+ polar molecule ion na+ cl k+ endocytosis exocytosis endocytosis occur cell membrane invaginate engulf material bring cell material encase vesicle important cell ingest toxic substance pinocytosis endocytosis fluid dissolve particle phagocytosis ingestion large solid bacteria substrate bind specific receptor embed plasma membrane initiate process endocytosis invagination initiate carry vesicle coat protein notably exocytosis occur secretory vesicle fuse membrane release material inside cell extracellular environment exocytosis important nervous system intercellular signaling instance exocytosis neurotransmitter synaptic vesicle crucial aspect neuron physiology endo-exocytosis illustrate figure 8.11 figure 8.11 endocytosis exocytosis mcat concept check 8.3 assess understanding material question 1 primary thermodynamic factor responsible passive

assess understanding material question 1 primary thermodynamic factor responsible passive transport 2 relationship osmotic pressure direction osmosis semipermeable 3 compare type active transport difference symport antiport 8.4 specialized membrane chapter 8.4 able identify channel involve maintenance rest membrane potential calculate rest membrane potential nernst equation distinguish different region mitochondrion membrane organelle similar cell membrane composition general characteristic important note membrane specialize accomplish specific function instance sarcolemma muscle cell maintain membrane potential muscle contraction occur membrane composition alter slightly especially case mitochondrion impermeability cell membrane ion selectivity ion channel lead electrochemical

gradient exterior interior cell difference electrical potential cell membrane call membrane potential vm rest potential cell 40 80 mv potential rise high +35 mv depolarization cell maintain membrane potential require energy ion passively diffuse cell membrane time leak channel ion transporter pump sodium potassium pump na+/k+ atpase regulate concentration intracellular extracellular sodium potassium ion chloride ion participate establish membrane potential nernst equation determine membrane potential intra- extracellular concentration ion e = rt zf ln ion]outside r ideal gas constant t temperature kelvin z charge ion f faraday constant 96 485 mol e simplification

61.5 numerator assume body temperature 310 k. goldman hodgkin katz voltage equation flow nernst equation

take account relative contribution major ion membrane vm = 61.5 log pna+ × na+]outside + pk+ × k+]outside + pcl× cl-]inside pna+ × na+]inside + pk+ × k+]inside + pcl× cl-]inside cell membrane compare capacitor opposite charge maintain membrane capacitance discuss chapter 6 mcat physics math review p represent permeability relevant ion note chloride invert relative ion carry negative charge steady state resting relationship ion diffusion na+/k+ atpase main function na+/k+ atpase maintain low concentration sodium ion high concentration potassium ion intracellularly pump sodium ion potassium ion pump movement ion remove positive charge intracellular space cell maintain negative resting potential cell mention cell membrane contain leak channel allow ion na+ k+ passively diffuse cell concentration gradient cell membrane permeable k+ ion na+ ion rest k+ leak channel na+ leak channel combination na+/k+ atpase activity leak channel maintain stable rest membrane potential mitochondrion refer powerhouse cell ability produce atp oxidative respiration mitochondrion contain membrane inner outer outer mitochondrial membrane outer mitochondrial membrane highly permeable large pore allow passage ion small protein outer membrane completely surround inner mitochondrial membrane presence small intermembrane space inner mitochondrial

membrane inner mitochondrial membrane restricted permeability compare outer mitochondrial membrane structurally inner mitochondrial membrane contain numerous infolding know crista increase available surface area integral protein associate membrane protein discuss chapter 10 mcat biochemistry review involve electron transport chain atp synthesis inner membrane enclose mitochondrial matrix citric acid cycle produce high- energy electron carrier electron transport chain inner mitochondrial membrane contain high level cardiolipin contain cholesterol mcat concept check 8.4 assess understanding material question 1 rest membrane potential maintain 2 give following datum calculate rest membrane potential cell 3 distinguish inner mitochondrial membrane biological membrane ph gradient cytoplasm intermembrane space understand biological membrane increasingly important progress medical career point strong foundation knowledge fluid mosaic model membrane exist dynamically

point strong foundation knowledge fluid mosaic model membrane exist dynamically cover component cell membrane special emphasis lipid phospholipid bilayer review basic physical property cell include cell cell junction examine membrane transport passive transport simple diffusion facilitate diffusion osmosis active transport briefly touch endocytosis exocytosis finally review specialized membrane cell expose class molecule application experimentally cell comprehensive review provide well understanding expect test day briefly introduce topic learn medical seven chapter mcat biochemistry review focus type biomolecule structure function chapter apply knowledge biomolecule sense biological membrane remain chapter turn attention metabolic pathway body build store burn biomolecule review content test knowledge critical thinking skill complete test like passage set online resource fluid mosaic model fluid mosaic model account presence lipid protein carbohydrate dynamic semisolid plasma membrane surround cell plasma membrane contain protein embed phospholipid bilayer membrane static lipid freely plane membrane assemble lipid raft flippase specific membrane protein maintain bidirectional transport lipid layer phospholipid bilayer cell protein

carbohydrate membrane slow relatively large size lipid primary membrane component mass mole fraction triacylglycerol free fatty acid act phospholipid precursor find low level membrane glycerophospholipid replace fatty acid phosphate group link hydrophilic group cholesterol present large amount contribute membrane fluidity wax present small amount prevalent plant function waterproofing defense protein locate cell membrane act transporter cell adhesion molecule transmembrane protein hydrophobic domain likely function receptor channel embedded protein likely catalytic complex involve cellular membrane associate protein act recognition molecule enzyme carbohydrate form protective glycoprotein coat function cell extracellular ligand bind membrane receptor function channel enzyme second messenger pathway cell cell junction regulate transport intracellularly intercellularly gap junction allow rapid exchange ion small molecule tight junction prevent paracellular transport provide intercellular desmosome hemidesmosome anchor layer epithelial tissue concentration gradient help determine appropriate membrane transport mechanism osmotic pressure colligative property pressure apply pure solvent prevent osmosis

osmotic pressure colligative property pressure apply pure solvent prevent osmosis express concentration solution well conceptualize suck pressure solution draw water proportional concentration passive transport require energy molecule move concentration gradient area high concentration area low simple diffusion require transporter small nonpolar molecule passively area high concentration area low concentration equilibrium achieve osmosis describe diffusion water selectively permeable membrane facilitated diffusion use transport protein impermeable solute cell active transport require energy form atp exist favorable ion gradient active transport primary secondary depend energy source secondary active transport classify symport antiport endocytosis exocytosis method engulf material cell release material exterior cell cell membrane pinocytosis ingestion liquid cell vesicle form cell membrane phagocytosis ingestion large solid molecule composition cell membrane fairly consistent cell contain specialized membrane membrane potential maintain sodium potassium pump leak

channel electrical potential create ion calculate nernst equation resting potential membrane physiological temperature calculate goldman hodgkin katz voltage equation derive nernst mitochondrial membrane differ cell membrane outer mitochondrial membrane highly permeable metabolic molecule inner mitochondrial membrane surround mitochondrial matrix citric acid cycle produce electron electron transport chain enzyme important cellular respiration locate inner mitochondrial membrane contain cholesterol answer concept check 1 flippase responsible movement phospholipid layer plasma membrane energetically unfavorable lipid raft aggregate specific lipid membrane function attachment point biomolecule play role signaling 2 lipid include phospholipid cholesterol plentiful protein include transmembrane protein channel receptor membrane associate protein embed protein plentiful carbohydrate include glycoprotein coat signaling molecule nucleic acid essentially absent 1 hydrophilic region diagram need able recognize head group phosphatidylcholine example hydrophobic region compose fatty acid tail tail left saturate tail right unsaturated evidence kink chain 2 cholesterol moderate membrane fluidity interfere crystal structure cell membrane occupy space phospholipid molecule low temperature restrict excessive movement phospholipid high temperature cholesterol provide stability cros link adjacent phospholipid interaction polar head group

provide stability cros link adjacent phospholipid interaction polar head group hydrophobic interaction nearby fatty acid tail 3 transmembrane protein likely serve channel receptor embedded membrane protein likely catalytic activity link nearby enzyme membrane associate peripheral protein likely involve signaling recognition molecule extracellular surface 4 gap junction allow intercellular transport material prevent paracellular transport material tight junction intercellular transport prevent paracellular transport gap junction discontinuous bunche cell tight junction form band cell 1 primary thermodynamic factor responsible passive transport entropy 2

osmotic pressure increase water tend flow compartment decrease solute concentration osmotic pressure consider suck pressure water compartment high osmotic pressure 3 primary active transport use atp energy source movement molecule concentration gradient secondary active transport use electrochemical gradient power transport symport move particle secondary active transport membrane direction antiport move particle cell membrane opposite direction 1 membrane potential result difference number positive negative charge membrane maintain primarily sodium potassium pump move sodium ion cell potassium ion pump minor extent leak channel allow passive transport ion exact value 64.0 mv 3 inner mitochondrial membrane lack cholesterol differentiate biological membrane ph gradient cytoplasm intermembrane space outer mitochondrial membrane high permeability biomolecule proton motive force mitochondria inner mitochondrial membrane outer mitochondrial membrane science mastery assessment explanation ask identify type transport allow large polar molecule cross membrane energy expenditure scenario describe facilitate diffusion vm = 61.5 log = 61.5 log 0.05×[14]+1×[120]+0×[120 = 61.5 log = 61.5 log 120.7 60 log 10 = 60mv use transport

protein channel facilitate movement large polar molecule nonpolar hydrophobic membrane facilitate diffusion like simple diffusion require question require understanding osmosis action sodium potassium pump cell place hypertonic solution solution have high solute concentration cell fluid diffuse cell result cell shrinkage cell place hypotonic solution solution have low solute concentration cell fluid diffuse solution cell cause cell expand possibly lyse sodium potassium pump move sodium ion cell potassium ion let cell inhibition sodium potassium pump ouabain cause net increase sodium concentration inside cell water diffuse cause cell swell lyse polarization membrane rest result uneven distribution ion inside outside cell difference achieve active pumping ion predominantly sodium potassium cell selective permeability membrane allow certain ion cross ribosome site protein synthesis cell couple cell membrane cell membrane function site cytoskeletal attachment protein lipid raft transport

regulation c accomplish channel transporter selective permeability phospholipid act reagent second messenger formation d movement individual molecule cell membrane affect size polarity diffusion lipid small protein plasma membrane quickly lipid fast plane cell membrane polar head group need pass hydrophobic tail region way move membrane layer compound contribute membrane fluidity lower melting point disrupt crystal structure cholesterol c unsaturated lipid d know function trans glycerophospholipid tend increase melting point membrane decrease membrane fluidity membrane receptor extracellular intracellular domain consider transmembrane protein order initiate second messenger cascade typically display enzymatic activity act strictly channel plasmodesma cell cell junction find plant animal gap junction tight junction desmosome hemidesmosome find animal particularly epithelia movement molecule dependent multiple factor include electric potential membrane solubility concentration gradient electric potential take account multiple molecule movement solute water diffusion osmosis dependent concentration gradient molecule endocytosis bulk uptake vesicle formation fluid know pinocytosis phagocytosis endocytotic intake solid exocytosis c method release vesicular content drinking d apply cellular level cell membrane likely rest membrane potential nonzero rest

cellular level cell membrane likely rest membrane potential nonzero rest membrane potential create state capable respond stimulus signal molecule channel useful membrane potential zero value give answer choice correspond different stage action potential key information rest potential 0 mv maintain gradient later activity outer mitochondrial membrane permeable inner membrane highly impermeable inner mitochondrial membrane unique cell lack nernst equation relate intra- extracellular concentration ion potential create gradient physiological temperature simplify $e = 61.5$ calcium $z = +2$ ca2 + ratio ionoutside ioninside = 104 plug $e = 61.5 +2 \log 104 = 61.5 +2 \times 4 = 123$ mv fluid mosaic model account dynamic membrane model membrane component contain fatty carbohydrate derive component eliminate b membrane stabilize hydrophobic interaction fatty acid tail membrane protein find cytosolic extracellular

membrane run directly membrane c d eliminate ganglioside ceramide sphingomyelin cerebroside sphingolipid consult online resource additional practice equation remember 8.1 osmotic pressure π = imrt 8.2 nernst equation e = rt zf ln ion]outside ion]inside = 61.5 z log ion]outside

8.3 goldman hodgkin katz voltage equation vm = 61.5 log pna+ × na+]outside + pk+ × k+]outside + pcl× cl]inside pna+ × na+]inside + pk+ × k+]inside + pcl× cl]outside biochemistry chapter 3 nonenzymatic protein function protein analysis biochemistry chapter 5 lipid structure function biology chapter 1 biology chapter 10 general chemistry chapter 9 physics math chapter 5 carbohydrate metabolism gluconeogenesis pentose phosphate pathway pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 following transporter cell liver store excess glucose beta cell pancreas a. glut 1 b. glut 2 c. glut 3 d. glut 4 2 following organ require constant supply glucose blood energy fast a. red blood cell 3 insulin release act increase absorption glucose skeletal muscle predominantly a. glut 1 b. glut 2 c. glut 3 d. glut 4 4 overnight fast following enzyme expect little physiological activity a.

malate dehydrogenase c. α ketoglutarate dehydrogenase 5 following enzyme trap sugar 6 fatty acid β oxidation predominate liver mitochondrial pyruvate likely a. carboxylate phosphoenolpyruvate entry b. oxidatively decarboxylate acetyl coa oxidation citric acid cycle c. carboxylate oxaloacetate entry gluconeogenesis d. reduce lactate process fermentation 7 biopsy child enlarged liver show accumulation glycogen granule single glucose residue remain branch point near periphery granule likely genetic defect gene encoding a. α-1,4 phosphorylase glycogen phosphorylase b. α-1,4 α-1,6 transferase branching enzyme c. α-1,4 α-1,4 transferase debranching enzyme d. α-1,6 glucosidase debranche enzyme complex 8 investigator measure activity enzyme involve reaction intermediary metabolism enzyme greatly decrease activity compare reference value buffer assay contain citrate following enzyme likely directly affect use b. isocitrate dehydrogenase d. pyruvate carboxylase 9 brief period intense exercise activity muscle pyruvate dehydrogenase greatly increase increase activity likely a. decrease adp b. increase acetyl coa. c. increase nadh nad+ ratio d. increase pyruvate concentration 10 metabolism following sugar affect inhibition enzyme phosphofructokinase-1 11 patient give antibiotic treat urinary tract infection develop episode red blood cell lysis study weakness

plasma membrane heinz body collection oxidize hemoglobin following enzyme likely defective patient b. glucose-6 phosphate dehydrogenase d. pyruvate kinase 12 unique enzyme gluconeogenesis circumvent specific irreversible step glycolysis following correctly pair enzyme glycolysis corresponding enzyme(gluconeogenesis b. pyruvate dehydrogenase pyruvate carboxylase d. pyruvate kinase glucose-6 phosphatase 13 overnight fast following process expect occur elevated rate compare feed d. glycerol synthesis 14 andersen disease cause mutation branch enzyme associate cirrhosis scientist theorize cause likely immune response abnormal glycogen following well describe ratio glycogen α-1,4 α-1,6 linkage individual disorder c. difference d. determine 15 following catalyze rate limit step carbohydrate metabolism pathway b. glycogen synthase c. glucose-6 phosphate

dehydrogenase carbohydrate metabolism gluconeogenesis pentose phosphate pathway chapter 9.1 glucose transport important enzyme glycolysis important intermediate glycolysis glycolysis erythrocyte 9.3 monosaccharide 9.4 pyruvate dehydrogenase 9.5 glycogenesis glycogenolysis glycogen storage disease important enzyme gluconeogenesis 9.7 pentose phosphate pathway function nadph content chapter relevant 5 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism 5d structure function reactivity biologically relevant molecule maintain constant blood glucose concentration dl 5.6 mm utmost importance body high blood sugar cause long term damage retina kidney blood vessel nerve low blood sugar cause autonomic disturbance seizure coma ability glucose constantly body find way store release glucose need give variety food eat daily basis body find way use carbohydrate take complex interplay neurological endocrine digestive excretory system maintain blood glucose concentration discuss chapter 12 mcat biochemistry review chapter look metabolic pathway involve glucose method body digest glucose monosaccharide store release glucose energy generate glucose biomolecule use glucose create coenzyme substrate need biosynthesis chapter focus metabolism mcat biochemistry review focus metabolic process glucose require oxygen chapter 10 turn focus process occur aerobic condition chapter 11 explore metabolism lipid amino acid finally chapter 12 bring metabolism focus

metabolism lipid amino acid finally chapter 12 bring metabolism focus bioenergetic regulation 9.1 glucose transport chapter 9.1 able list location function glut 2 glut 4 glucose transport predict increase blood glucose level impact glut 2 glut 4 activity glucose entry cell drive concentration independent sodium unlike absorption digestive tract normal glucose concentration peripheral blood 5.6 mm normal range 4–6 mm glucose transporter call glut 1 glut 4 glut 2 glut 4 significant locate specific cell highly regulate km concentration substrate enzyme active half maximum velocity vmax low km high enzyme affinity substrate chapter 2 mcat biochemistry review michaelis menten enzyme kinetic glut 2 low affinity transporter

hepatocyte pancreatic cell meal blood travel hepatic portal vein intestine rich glucose glut 2 capture excess glucose primarily storage glucose concentration drop km transporter remainder bypass liver enter peripheral circulation km glut 2 high 15 mm mean liver pick glucose proportion concentration blood order kinetic word liver pick excess glucose store preferentially meal blood glucose level high β islet cell pancreas glut 2 glycolytic enzyme glucokinase serve glucose sensor insulin glut 4 adipose tissue muscle respond glucose concentration peripheral blood rate glucose transport tissue increase insulin stimulate movement additional glut 4 transporter membrane mechanism involve exocytosis show figure 9.1 km glut 4 close normal glucose level blood 5 mm mean transporter saturate blood glucose level bit high normal person high blood sugar concentration transporter permit constant rate glucose influx saturate zero order kinetic cell glut 4 transporter increase intake glucose increase number glut 4 transporter surface figure 9.1 insulin regulation glucose transport muscle adipose cell diabetes mellitus cause disruption insulin glut 4 mechanism type 1 diabetes insulin absent stimulate insulin receptor type 2 diabetes receptor insensitive insulin fail bring glut 4 transporter cell surface case blood glucose rise lead immediate symptom increase urination increase

case blood glucose rise lead immediate symptom increase urination increase thirst ketoacidosis long term symptom blindness heart attack stroke nerve damage basal level transport occur cell independently insulin transport rate increase adipose tissue muscle insulin level rise muscle store excess glucose glycogen adipose tissue require glucose form dihydroxyacetone phosphate dhap convert glycerol phosphate store incoming fatty acid triacylglycerol mcat concept check 9.1 assess understanding material question 1 compare contrast glut 2 glut 4 saturate normal glucose level responsive insulin 2 insulin promote glucose entry cell biochemistry guide example expert malignant cell increase expression glycolytic enzyme glucose uptake markedly enhance glycolysis aerobic glycolysis warburg effect lead production large atp biomolecule nucleic acid lipid essential cell survival division

order clarify role glycolysis atp production malignant normal cell intracellular level atp measure treatment hexokinase ii inhibitor 3brpa 10 30 50 µm malignant rpmi8226 multiple myeloma mm cell datum express relative value untreated cell figure 1 mm cell know reside bone marrow normal hematopoietic cell compare effect inhibit glycolysis atp production malignant normal cell cd138 + primary mm cell cd138 non mm bone marrow mononuclear cell bmmcs culture 60 minute 50 µm 3brpa cellular level atp measure figure 2 finally evaluate effect

3brpa cell viability rpmi8226 peripheral blood mononuclear cell pbmcs non mm culture 24 hour 3brpa indicate concentration cell stain propidium iodide pi bind intro research helpful question broad context explain role glycolysis atp cancerous normal cell acronym passage helpful replace mentally simple word add note scratch board 3brpa fig 2 fig 1 intensely non viable cell analyze flow cytometry figure 3 compare replace cd138 + indicate new thing come inhibitor add cancer normal dye pick iv concentration dv atp level trend glycolysis inhibitor conc go atp level decrease cancer iv cancer vs. normal cell type dv atp level inhibitor lower atp level cancer cell compare set graph essentially iv normal vs. dv level dead trend glycolytic inhibitor kill cancer cell compare normal adapt nakano a. tsuji d. miki h. cui q.

el sayed s. m. ikegame a. abe m. 2011 glycolysis inhibition inactivate abc transporter restore drug sensitivity malignant cell plos 6(11 e27222 accord datum result support usage glycolytic inhibitor like 3brpa preferentially target malignant cell question go require understand experiment test result gather let start make sure understand passage fully quick scan passage reveal multiple challenge lot acronym unfamiliar jargon experimental technique experimental graph piece datum distinct center support experiment purpose second sentence state overall purpose passage explore cancer cell primarily use glycolysis preference specifically target tumor figure 1 happen atp level time multiple myeloma cell treat hexokinase inhibitor look datum time big dose write line inhibitor atp level cancer cell drop glycolysis primary way

cancer cell produce atp passage state sentence result figure 1 say support hypothesis figure 2 show comparison atp production presence absence inhibitor cancer cell rpmi8226 cd138 + normal cell cd138 drop atp treat inhibitor cell type statistical difference atp level cancer vs. normal cell inhibitor present bracket figure indicate statistically significant difference cancer cell line inhibitor normal cell line inhibitor kind statistical significance indication graph point head solve passage base question mcat piece evidence show inhibit glycolysis big effect cancer cell compare normal see statistically significant difference group impactful proof come figure 3 cell treat pi passage tell stain non viable dead cell intensely cancer cell progressively dead cell indicate high bar increase amount glycolytic inhibitor graph figure 3 normal cell second graph figure 3 far few dead cell high dose directly compare estimate 70 cancer cell pi positive 30 μm 3brpa 10 nonmalignant cell pi positive concentration 3brpa result figure 3 tell glycolytic inhibitor 3brpa far effective kill cancerous vs. noncancerous cell line finding supportive idea 3brpa possibly target treat cancerous cell chapter 9.2 able recall key step key intermediate reactant product key enzyme

able recall key step key intermediate reactant product key enzyme explain function mechanism lactate fermentation explain unique effect glycolysis hemoglobin erythrocyte recall function regulatory mechanism give enzyme glycolysis phosphoglycerate kinase red blood cell extrude mitochondrion development discuss chapter 7 mcat biology review help carry function carry oxygen maximize volume available hemoglobin primary oxygen carry protein stop red blood cell utilize oxygen suppose carry oxygen deplete bodily tissue cell carry glycolysis tissue importantly red blood cell glycolysis represent energy yield pathway available red blood cell lack mitochondrion require citric acid cycle electron transport chain oxidative phosphorylation fatty acid metabolism β oxidation glucose major monosaccharide enter pathway galactose fructose feed glycolysis necessary cell body know disease cause complete absence enzyme glycolysis word unable carry glycolysis incompatible life partial enzyme defect rare include pyruvate kinase deficiency glycolysis cytoplasmic pathway convert glucose

pyruvate molecule release modest energy capture substrate- level phosphorylation oxidation reaction cell mitochondria oxygen energy carrier produce glycolysis nadh feed aerobic respiration pathway generate energy cell mitochondria oxygen lack erythrocytes exercise skeletal muscle respectively glycolysis occur anaerobically available energy lose glycolysis provide intermediate pathway liver glycolysis process excess glucose convert fatty acid storage important enzyme glycolysis glycolysis contain different step illustrate figure 9.2 mcat predominantly test enzyme highly regulated serve important energetic function focus attention enzyme figure 9.2 glycolysis hexokinase glucokinase step glucose metabolism cell transport membrane phosphorylation kinase enzyme inside cell prevent glucose leave transporter remember chapter 2 mcat biochemistry review kinase attach phosphate group atp substrate glucose enter cell facilitate diffusion active transport case kinase convert glucose glucose 6- phosphate glut transporter specific glucose phosphorylate glucose glucose get trap inside cell leak hexokinase widely distribute tissue inhibit product glucose 6 phosphate glucokinase find liver cell pancreatic β islet cell liver glucokinase induce insulin table 9.1 identify difference enzyme coincide difference

glucokinase induce insulin table 9.1 identify difference enzyme coincide difference glucose transporter tissue table 9.1 comparison hexokinase glucokinase present tissue present hepatocyte pancreatic β islet cell glut 2 act glucose sensor low km reach maximum velocity low glucose high km act glucose proportionally inhibit glucose 6- induce insulin hepatocyte enzyme mcat likely test rate limit enzyme process list fermentation lactate dehydrogenase glycogenesis glycogen synthase glycogenolysis glycogen phosphorylase pentose phosphate pathway glucose-6 phosphate dehydrogenase phosphofructokinase pfk-1 pfk-2 phosphofructokinase-1 pfk-1 rate limit enzyme main control point glycolysis reaction fructose 6 phosphate phosphorylate fructose 1,6 bisphosphate atp pfk-1 inhibit atp citrate activate amp make sense cell turn glycolysis sufficient energy high atp turn glycolysis need energy high amp citrate intermediate citric acid cycle high level citrate imply cell produce sufficient

energy chapter 11 mcat general chemistry review learn oxidation loss electron reduction gain electron true biomolecule easy think oxidation increase bond oxygen heteroatom atom c h reduction increase bond hydrogen discuss chapter 4

mcat organic chemistry review conversion nad+ nadh insulin stimulate glucagon inhibit pfk-1 hepatocyte indirect mechanism involve pfk-2 fructose 2,6 bisphosphate

show figure 9.2 insulin activate phosphofructokinase-2 pfk-2 convert tiny fructose 6 phosphate fructose 2,6 bisphosphate f2,6 bp f2,6 bp activate pfk-1 hand glucagon inhibit pfk-2 lower f2,6 bp inhibit pfk-1 pfk-2 find liver activate pfk-1 allow cell override inhibition cause atp glycolysis continue cell energetically satisfy metabolite glycolysis feed production glycogen fatty acid storage molecule burn produce atp glyceraldehyde-3 phosphate dehydrogenase catalyze oxidation addition inorganic phosphate pi substrate glyceraldehyde 3- phosphate result production high energy intermediate 1,3- bisphosphoglycerate reduction nad+ nadh glycolysis aerobic nadh oxidize mitochondrial electron transport chain provide energy atp synthesis oxidative phosphorylation 3 phosphoglycerate kinase transfer high energy phosphate 1,3- bisphosphoglycerate adp form atp 3 phosphoglycerate type reaction adp directly phosphorylate atp high- energy intermediate refer substrate level phosphorylation contrast oxidative phosphorylation mitochondria substrate level phosphorylation dependent oxygen mean atp generation anaerobic tissue enzyme aerobic glycolysis pyruvate kinase catalyze substrate- level phosphorylation adp high energy substrate phosphoenolpyruvate pep pyruvate kinase activate fructose 1,6- bisphosphate pfk-1 reaction refer feed forward activation mean product early reaction glycolysis fructose 1,6 bisphosphate stimulate prepare later reaction glycolysis activate pyruvate kinase absence oxygen fermentation occur key fermentation enzyme mammalian cell lactate dehydrogenase oxidize nadh nad+ replenish oxidize coenzyme glyceraldehyde-3- phosphate dehydrogenase mitochondria oxygen glycolysis stop available nad+ reduce nadh reduce pyruvate lactate oxidize nadh nad+ lactate

dehydrogenase prevent potential problem develop net loss carbon process pyruvate lactate carbon molecule aerobic tissue lactate normally form significant amount oxygenation poor strenuous exercise skeletal muscle heart attack stroke cellular atp generate anaerobic glycolysis lactate production increase yeast cell fermentation conversion pyruvate carbon ethanol carbon carbon dioxide carbon end product different result mammalian yeast fermentation replenish nad+ important intermediates glycolysis glycolysis serve crossroads number metabolic process intermediate glycolysis link different pathway catabolism anabolism intermediate worth dihydroxyacetone phosphate dhap hepatic adipose tissue triacylglycerol synthesis dhap form fructose

phosphate dhap hepatic adipose tissue triacylglycerol synthesis dhap form fructose 1,6 bisphosphate isomerize glycerol 3 phosphate convert glycerol backbone triacylglycerols 1,3 bisphosphoglycerate 1,3 bpg phosphoenolpyruvate pep high energy intermediate generate atp substrate level phosphorylation atp gain anaerobic respiration enzyme pathway catalyze reaction irreversible keep pathway move direction liver able generate new glucose biomolecule gluconeogenesis essentially reverse glycolysis irreversible enzyme glycolysis different reaction different enzyme point glucokinase hexokinase irreversible step glycolysis glycolysis push forward process kinase adaptation high altitude low po2 involve increase oxygen affinity hemoglobin initial increase rate glycolysis increase 2,3 bpg rbc 12–24 hour period normalize oxygen affinity hemoglobin restore increase level 2,3 bpg increase hemoglobin day week gas exchange discuss chapter 6 mcat biology review effect hemoglobin discuss chapter 7 mcat biology review glycolysis erythrocyte erythrocyte red blood cell anaerobic glycolysis represent pathway atp production yield net 2 atp glucose red blood cell bisphosphoglycerate mutase produce 2,3- bisphosphoglycerate 2,3 bpg 1,3 bpg glycolysis remember mutase enzyme functional group place molecule case phosphate move 1- position 2 position 2,3 bpg bind allosterically β chain hemoglobin hba decrease affinity oxygen effect 2,3- bpg see oxygen dissociation curve hba show figure 9.3 rightward shift curve sufficient

allow unloading oxygen tissue allow 100 percent saturation lung abnormal increase erythrocyte 2,3 bpg shift curve far hba fully saturate lung figure 9.3 effect 2,3 bisphosphoglycerate hemoglobin remember physiological change promote right shift oxygen dissociation curve bohr effect discuss chapter 7 mcat biology review occur exercise give mnemonic exercise right thing 2,3 bpg bind hba bind fetal hemoglobin hbf result hbf high affinity oxygen maternal hba.

allow transplacental passage oxygen mother mcat concept check 9.2 assess understanding material question 1 function key regulator following enzyme one 2 pyruvate undergo fermentation glycolysis continue 3 necessary fetal hemoglobin bind 2,3 bpg 9.3 monosaccharide chapter 9.3 able explain importance trap sugar cell link metabolism glycolysis pathway recognize key enzyme reactant product galactose fructose glucose represent primary monosaccharide cell monosaccharide galactose fructose contribute atp production feed glycolysis metabolic process monosaccharide test far frequently glucose mcat include compare contrast metabolism glycolysis particular notice similarity figure 9.2 glycolysis figure 9.4 galactose metabolism 9.5 fructose figure 9.4 galactose metabolism figure 9.5 fructose metabolism important source galactose diet disaccharide lactose present milk lactose hydrolyze galactose glucose lactase brush border enzyme duodenum monosaccharide galactose reach liver hepatic portal vein transport tissue galactose phosphorylate galactokinase trap cell result galactose 1 phosphate convert glucose 1 phosphate galactose-1 phosphate uridyltransferase epimerase epimerase enzyme catalyze conversion sugar epimer remember chapter 4 mcat biochemistry review epimer diastereomer differ exactly chiral carbon pathway show figure 9.4 important enzyme remember primary lactose intolerance cause hereditary deficiency lactase secondary lactose intolerance precipitate age gastrointestinal disturbance cause damage intestinal lining lactase find common symptom lactose intolerance include vomiting bloating explosive watery diarrhea cramp dehydration symptom attribute bacterial fermentation lactose produce mixture ch4 h2 small organic acid

acid osmotically active result movement water intestinal lumen fructose find honey fruit disaccharide sucrose common table sugar sucrose hydrolyze duodenal brush border enzyme sucrase result monosaccharide glucose fructose absorb hepatic portal vein liver phosphorylate fructose fructokinase trap cell result fructose 1 phosphate cleave glyceraldehyde dhap aldolase b.

small amount metabolize renal proximal tubule pathway show figure genetic deficiency galactokinase galactose-1 phosphate uridyltransferase lead galactosemia cataract characteristic finding result conversion excess galactose blood galactitol lens eye aldose reductase galactitol polyol carbon chain alcohol group hydrophilic accumulation galactitol lens cause osmotic damage cataract deficiency galactose-1 phosphate uridyltransferase severe addition cause galactosemia lead galactose 1 phosphate getting stick intracellularly liver brain tissue diffuse dihydroxyacetone phosphate dhap glyceraldehyde product fructose metabolism downstream key regulatory rate limit enzyme glycolysis pfk-1 high fructose drink supply quick source energy aerobic mcat concept check 9.3 assess understanding material question 1 enzyme responsible trap galactose cell enzyme galactose metabolism result product feed directly glycolysis link pathway 2 enzyme responsible trap fructose cell enzyme fructose metabolism result product feed directly glycolysis link pathway 9.4 pyruvate dehydrogenase chapter 9.4 able recall reactant product pyruvate dehydrogenase complex describe relationship acetyl coa level pdh activity pyruvate aerobic glycolysis enter mitochondria convert acetyl coa entry citric acid cycle atp need fatty acid synthesis sufficient atp present pyruvate dehydrogenase complex pdh reaction show figure 9.6 irreversible convert acetyl coa pyruvate glucose pyruvate dehydrogenase liver activate insulin nervous system enzyme responsive hormone make sense high insulin level signal liver individual feed state liver burn glucose energy shift fatty acid equilibrium production storage oxidation fatty acid synthesis discuss chapter 11 mcat biochemistry review start citrate produce citric acid cycle figure 9.6 pyruvate dehydrogenase deficiency thiamine vitamin b1 result beriberi characterize

congestive heart failure nerve damage wernicke korsakoff syndrome characterize difficulty walk uncoordinated eye movement confusion memory disturbance give glucose individual thiamine deficiency lead severe lactic acidosis metabolic derangement pyruvate convert acetyl coa vitamin thiamine give infusion glucose individual suspect thiamine deficiency alcoholic pyruvate dehydrogenase actually complex enzyme carry multiple reaction succession detail reaction cover chapter 10 mcat biochemistry review overview enzyme provide represent possible

chapter 10 mcat biochemistry review overview enzyme provide represent possible fate pyruvate conversion acetyl coa pdh conversion lactate lactate dehydrogenase conversion oxaloacetate pyruvate carboxylase large complex require multiple cofactor coenzyme include thiamine pyrophosphate lipoic acid coa fad nad+ insufficient amount cofactor coenzyme result metabolic pyruvate dehydrogenase inhibit product acetyl coa.

control important context consider pyruvate carboxylase mitochondrial enzyme use pyruvate introduce gluconeogenesis later chapter essentially buildup acetyl coa happen β oxidation cause shift metabolism pyruvate long convert acetyl coa enter citric acid cycle oxaloacetate enter gluconeogenesis mcat concept check 9.4 assess understanding material question 1 reactant pyruvate dehydrogenase complex 2 acetyl coa affect pdh complex activity 9.5 glycogenesis glycogenolysis chapter 9.5 able recall key enzyme reactant product glycogenesis describe feature glycogen storage disease recognize structural feature glycogen major glycosidic link glycogen branched polymer glucose represent storage form glucose glycogen synthesis degradation occur primarily liver skeletal muscle tissue store small quantity glycogen store cytoplasm granule granule central protein core polyglucose chain radiate outward form sphere show figure 9.7 glycogen granule compose entirely linear chain high density glucose near core chain branch glucose density high periphery granule allow rapid release glucose demand figure 9.7 glycogen granule glycogen liver skeletal muscle serve

different role liver glycogen break maintain constant level glucose blood muscle glycogen break provide glucose muscle vigorous exercise glycogen store liver source glucose mobilize meal prevent low blood sugar muscle glycogen store energy reserve muscle contraction focus human metabolism worth mention plant store excess glucose long α linked chain glucose call starch see figure 9.8 figure 9.8 potatoes potato starch glycogenesis synthesis glycogen granule begin core protein call glycogenin show figure 9.9 glucose addition granule begin glucose 6 phosphate convert glucose 1- phosphate glucose 1 phosphate activate couple molecule uridine diphosphate udp permit integration glycogen chain glycogen synthase activation occur glucose 1 phosphate interact uridine triphosphate utp form udp glucose pyrophosphate ppi figure 9.9 glycogen metabolism glycogen synthase rate limit enzyme glycogen synthesis form α-1,4 glycosidic bond find linear glucose chain granule stimulate glucose 6 phosphate insulin inhibit epinephrine glucagon protein kinase cascade phosphorylate inactivate enzyme branching enzyme glycosyl α-1,4 α-1,6

kinase cascade phosphorylate inactivate enzyme branching enzyme glycosyl α-1,4 α-1,6 transferase branching enzyme responsible introduce α-1,6 link branch granule grow process branch introduce show schematically figure 9.10 branching enzyme figure 9.10 branching enzyme hydrolyze α-1,4 bond release block oligoglucose glucose molecule bond chain move add slightly different location form α-1,6 bond create branch α-1,4 keep branch move 4ward α-1,6 put branch mix rate limit enzyme glycogenolysis process break glycogen glycogen phosphorylase contrast hydrolase phosphorylase break bond inorganic phosphate instead water glucose 1 phosphate form glycogen phosphorylase convert glucose 6 phosphate mutase glycogen synthesis show figure 9.9 pressure test day easy misread word give passage question carbohydrate metabolism sure focus distinguish glycolysis glycogenesis glycogenolysis gluconeogenesis glycogen phosphorylase break α-1,4 glycosidic bond release glucose 1- phosphate periphery granule break α-1,6 bond stop near outermost branch point glycogen phosphorylase activate glucagon liver glucose provide rest body skeletal muscle

activate amp epinephrine signal muscle active require glucose inhibit atp debranching enzyme glucosyl α-1,4 α-1,4 transferase α-1,6 glucosidase debranche enzyme enzyme complex deconstruct branch glycogen expose glycogen phosphorylase step process occur diagram figure 9.11 figure 9.11 debranching enzyme break α-1,4 bond adjacent branch point move small oligoglucose chain release expose end forms new α-1,4 bond hydrolyze α-1,6 bond release single residue branch point free glucose represent free glucose produce directly glycogenolysis oppose glucose produce glucose 1 phosphate convert mutase glucose 6 phosphate convert glucose enzyme debranching enzyme actually enzyme different function move terminal end glycogen chain branch point α-1,4 α-1,4 transferase remove glucose monomer actually present branch point α-1,6 common glycogen storage disease von gierke disease defect glucose-6- phosphatase enzyme step gluconeogenesis process affect lead period extremely low blood sugar meal patient need continuous feeding carbohydrate maintain blood sugar buildup glucose 6 phosphate liver cell liver enlarge damage glycogen storage diseases number genetic deficiency impact

liver enlarge damage glycogen storage diseases number genetic deficiency impact metabolism glycogen clinical feature metabolic glycogen defect depend important factor enzyme affect degree enzyme activity decrease isoform enzyme affect isoform slightly different version protein case glycogen enzyme different isoform enzyme liver muscle deficiency term glycogen storage disease characterize accumulation lack glycogen mcat concept check 9.5 assess understanding material question 1 structure glycogen type glycosidic link exist glycogen 2 main enzyme glycogenesis accomplish 3 main enzyme glycogenolysis chapter 9.6 able recognize condition favor gluconeogenesis recall enzyme unique gluconeogenesis relate enzyme catalyze opposite process glycolysis detail regulatory role acetyl coa metabolism pyruvate liver maintain glucose level blood fasting glycogenolysis gluconeogenesis kidney carry gluconeogenesis contribution small pathway promote glucagon epinephrine act raise blood sugar level inhibit insulin act lower blood sugar level fasting

glycogen reserve drop dramatically 12 hour time gluconeogenesis increase 24 hour represent sole source glucose important substrate gluconeogenesis insulin act lower blood sugar level counterregulatory hormone include glucagon epinephrine cortisol growth hormone act raise blood sugar level stimulate glycogenolysis gluconeogenesis regulation metabolism discuss chapter 12 mcat biochemistry review glycerol 3 phosphate store fat triacylglycerols adipose lactate anaerobic glycolysis glucogenic amino acid muscle protein item list merit explain amino acid subclassifie glucogenic ketogenic glucogenic amino acid leucine lysine convert intermediate feed gluconeogenesis ketogenic amino acid convert ketone body alternative fuel particularly period prolonged starvation chapter 11 mcat biochemistry review information amino acid protein metabolism amino acid protein extremely important topic mcat check chapter 1 mcat biochemistry review information amino acid peptide protein dietary fructose galactose convert glucose liver describe early chapter human glucose convert acetyl coa glycolysis pyruvate dehydrogenase possible convert acetyl coa glucose fatty acid metabolize solely acetyl coa major source glucose minor exception fatty acid odd number carbon atom example fatty acid tail contain 17 carbon yield small propionyl

example fatty acid tail contain 17 carbon yield small propionyl coa glucogenic pathway gluconeogenesis diagram figure 9.12 important gluconeogenic intermediate lactate alanine glycerol 3- phosphate enzyme convert glycolytic intermediate figure 9.12 gluconeogenesis lactate convert pyruvate lactate dehydrogenase alanine convert pyruvate alanine aminotransferase glycerol 3 phosphate convert dihydroxyacetone phosphate dhap glycerol-3 phosphate important enzyme gluconeogenesis step gluconeogenesis represent reversal glycolysis omit diagram important enzyme know require catalyze reaction circumvent irreversible step glycolysis liver catalyze glucokinase phosphofructokinase-1 pyruvate kinase glycolysis contain irreversible step catalyze hexokinase phosphofructokinase-1 pyruvate kinase different enzyme exist gluconeogenesis allow body revert pyruvate glucose pyruvate carboxylase mitochondrial enzyme activate acetyl- coa β oxidation product oxaloacetate oaa

citric acid cycle intermediate leave mitochondrion reduce malate leave mitochondrion malate aspartate shuttle describe chapter 10 mcat biochemistry review cytoplasm malate oxidize oaa fact acetyl coa activate pyruvate carboxylase important point acetyl coa inhibit pyruvate dehydrogenase high level acetyl coa imply cell energetically satisfied need run citric acid cycle forward direction word cell stop burn glucose pyruvate shunt pyruvate carboxylase help generate additional glucose gluconeogenesis note source acetyl coa glycolysis pyruvate dehydrogenase case fatty acid produce glucose liver gluconeogenesis fatty acid burn provide energy stop forward flow citric acid cycle produce massive amount oaa eventually lead glucose production rest body phosphoenolpyruvate carboxykinase pepck phosphoenolpyruvate carboxykinase pepck cytoplasm induce glucagon cortisol generally act raise blood sugar level convert oaa phosphoenolpyruvate pep reaction require gtp pep continue pathway fructose 1,6 bisphosphate combination pyruvate carboxylase pepck circumvent action pyruvate kinase convert pyruvate pep fructose-1,6 bisphosphatase cytoplasm key control point gluconeogenesis represent rate limit step process reverse action phosphofructokinase-1 rate limit step glycolysis remove phosphate fructose 1,6 bisphosphate produce fructose 6 phosphate common pattern note phosphatase oppose kinase fructose-1,6 bisphosphatase activate atp inhibit amp fructose 2,6 bisphosphate sense high level atp imply cell energetically satisfied produce glucose

sense high level atp imply cell energetically satisfied produce glucose rest body high level amp imply cell need energy afford produce energy rest body satisfy requirement fructose 2,6-bisphosphate f2,6 bp think marker satisfactory energy level liver cell help cell override inhibition phosphofructokinase-1 occur high level acetyl coa form signal liver cell shift function burn store fuel f2,6 bp produce pfk-2 control gluconeogenesis glycolysis liver recall early discussion enzyme figure 9.2 pfk-2 activate insulin inhibit glucagon glucagon lower f2,6 bp stimulate gluconeogenesis insulin increase f2,6 bp inhibit glucose-6 phosphatase find lumen endoplasmic reticulum liver cell glucose 6 phosphate transport er free glucose transport

cytoplasm diffuse cell glut transporter absence glucose-6- phosphatase skeletal muscle mean muscle glycogen serve source blood glucose use muscle glucose-6 phosphatase circumvent glucokinase hexokinase convert glucose glucose 6 phosphate alanine major glucogenic amino acid amino acid glucogenic convert individual pathway citric acid cycle intermediate malate follow path glucose gluconeogenesis require acetyl coa occur inhibit pyruvate dehydrogenase stimulate pyruvate carboxylase gluconeogenesis inextricably link fatty acid oxidation source acetyl coa glycolysis burn glucose generate gluconeogenesis important note glucose produce hepatic liver base gluconeogenesis represent energy source liver gluconeogenesis require expenditure atp provide β- oxidation fatty acid mention hepatic gluconeogenesis dependent β oxidation fatty acid liver period low blood sugar adipose tissue release fatty acid break triacylglycerols glycerol convert gluconeogenic intermediate dhap free fatty acid acetyl coa fatty acid convert glucose convert ketone body alternative fuel cell include brain extended period low blood sugar usually accompany high level ketone blood ketone body think transportable form acetyl coa primarily utilize period extended starvation red blood cell lack mitochondrion carry aerobic metabolism pyruvate convert lactic acid regenerate nad+ lactate acidic remove bloodstream avoid acidify blood red blood cell deliver lactate liver convert pyruvate gluconeogenesis glucose red blood cell use know cori cycle

pyruvate gluconeogenesis glucose red blood cell use know cori cycle glucose convert lactate red blood cell lactate convert glucose liver cell mcat concept check 9.6 assess understanding material question 1 physiological condition body carry gluconeogenesis 2 enzyme unique gluconeogenesis irreversible glycolytic enzyme replace 3 acetyl coa shift metabolism pyruvate 4 give glycogen storage disorder von gierke disease affect enzyme gluconeogenesis predict associate metabolic derangement 9.7 pentose phosphate pathway chapter 9.7 able identify major product pentose phosphate pathway explain primary function nadph cellular respiration pentose phosphate pathway ppp know hexose monophosphate hmp shunt occur cytoplasm cell serve major function production nadph serve source ribose 5 phosphate

nucleotide synthesis abbreviated diagram pathway show figure 9.13 ppp begin glucose 6 phosphate end ribulose 5- phosphate irreversible produce nadph involve important rate limit enzyme glucose-6 phosphate dehydrogenase g6pd g6pd induce insulin abundance sugar enter cell insulin stimulation shunt fuel utilization pathway glycolysis aerobic respiration fuel storage pathway fatty acid synthesis glycogenesis ppp shunt inhibit product nadph activate figure 9.13 pentose phosphate pathway g6pd deficiency x link disorder common inherit enzyme defect world ppp critically important maintain level glutathione help break peroxide individual susceptible oxidative stress especially red blood cell carry large concentration oxygen ingestion certain oxidize compound especially particular antibiotic antimalarial medication infection lead high concentration reactive oxygen specie cause red blood cell lysis hypothesize defect evolve provide resistance malaria infection g6pd deficiency call favism fava bean highly oxidize food cause hemolysis individual ribulose 5 phosphate create ppp isomerize ribose 5 phosphate backbone nucleic acid couple nitrogenous base form nucleotide integrate rna sure review rna synthesis transcription chapter 7 mcat biochemistry review dna synthesis chapter 6 mcat biochemistry review highly test topic mcat nadph nadh thing nad+ energy carrier nadph biosynthesis immune system help prevent oxidative damage second pathway begin ribulose 5 phosphate represent

prevent oxidative damage second pathway begin ribulose 5 phosphate represent series reversible reaction produce equilibrated pool sugar biosynthesis include ribose 5 phosphate nucleotide synthesis fructose 6 phosphate glyceraldehyde 3 phosphate sugar produce intermediate feed glycolysis conversely pentose glycolytic intermediate go g6pd reaction interconversion primarily accomplish enzyme transketolase transaldolase function nadph name appear similar nadph nadh thing cell nad+ act high energy electron acceptor number biochemical reaction think potent oxidize agent help molecule oxidize reduce process nadh produce reduction nad+ feed electron transport chain indirectly conversely nadph primarily act electron donor number biochemical reaction think potent reduce agent help molecule

reduce oxidize process cell require nadph variety function biosynthesis mainly fatty acid cholesterol assist cellular bleach production certain white blood cell contribute bactericidal activity maintenance supply reduce glutathione protect reactive oxygen specie act body natural antioxidant function important protect cell free radical oxidative damage cause peroxide hydrogen peroxide h2o2 produce byproduct aerobic metabolism break apart form hydroxide radical oh•.

free radical attack lipid include phospholipid membrane oxidize lipid lose function weaken membrane cause cell lysis especially true red blood cell contain high level oxygen oxidize free radical superoxide radical o2 radical damage dna potentially cause cancer glutathione reduce agent help reverse radical formation damage cell mcat concept check 9.7 assess understanding material question 1 major metabolic product pentose phosphate pathway 2 primary function nadph chapter critically important study mcat process carbohydrate metabolism require oxygen heavily test integration body evolve way use store create fuel 24 hour day depend demand internal external environment turn pathway need turn regulation pathway make sense example acetyl coa downstream product glycolysis turn process glycolysis allow store extra sugar biomolecule generate sugar anew need return chapter repeatedly study maximize point metabolism test day chapter turn attention oxygen require carbohydrate metabolism process include citric acid cycle electron transport chain etc oxidative review content test knowledge critical thinking skill complete test like passage set online resource glut 2 find liver glucose storage pancreatic β- islet cell glucose sensor high km glut 4 find adipose tissue muscle stimulate insulin low km glycolysis occur cytoplasm cell require oxygen yield 2 atp molecule glucose important glycolytic enzyme include glucokinase convert glucose glucose 6 phosphate present pancreatic β islet cell glucose sensor responsive insulin liver hexokinase convert glucose glucose 6 phosphate phosphofructokinase-1 pfk-1 phosphorylate fructose 6 phosphate fructose 1,6 bisphosphate rate limit step glycolysis pfk-1 activate amp fructose 2,6- bisphosphate f2,6 bp inhibit atp citrate phosphofructokinase-2 pfk-2

produce f2,6 bp activate pfk-1 activate insulin inhibit glucagon glyceraldehyde-3 phosphate dehydrogenase produce nadh feed electron transport chain 3 phosphoglycerate kinase pyruvate kinase perform substrate level phosphorylation place inorganic phosphate pi adp form atp enzyme catalyze irreversible reaction glucokinase hexokinase pfk-1 pyruvate kinase nadh produce glycolysis oxidize mitochondrial electron transport chain oxygen present oxygen

produce glycolysis oxidize mitochondrial electron transport chain oxygen present oxygen mitochondrion absent nadh produce glycolysis oxidize cytoplasmic lactate dehydrogenase example include red blood cell skeletal muscle short intense burst exercise cell deprive oxygen galactose come lactose milk trap cell galactokinase convert glucose 1 phosphate galactose-1-phosphate uridyltransferase epimerase fructose come

honey fruit sucrose common table sugar trap cell fructokinase cleave aldolase b form glyceraldehyde dhap pyruvate dehydrogenase refer complex enzyme convert pyruvate acetyl coa. stimulate insulin inhibit acetyl coa.

glycogenesis glycogenolysis glycogenesis glycogen synthesis production glycogen main enzyme glycogen synthase create α-1,4 glycosidic link glucose molecule activate insulin liver muscle branch enzyme move block oligoglucose chain add grow glycogen new branch α-1,6 glycosidic link glycogenolysis breakdown glycogen main glycogen phosphorylase remove single glucose 1- phosphate molecule break α-1,4 glycosidic link liver activate glucagon prevent low blood sugar exercise skeletal muscle activate epinephrine amp provide glucose muscle debranche enzyme move block oligoglucose branch connect chain α-1,4 glycosidic link remove branchpoint connect α-1,6 glycosidic link release free glucose molecule gluconeogenesis occur cytoplasm mitochondrion predominantly liver small contribution gluconeogenesis simply reverse glycolysis enzyme irreversible step glycolysis bypass different

enzyme pyruvate carboxylase convert pyruvate oxaloacetate convert phosphoenolpyruvate phosphoenolpyruvate carboxykinase pepck enzyme bypass pyruvate kinase pyruvate carboxylase activate acetyl coa β oxidation pepck activate glucagon cortisol fructose-1,6 bisphosphatase convert fructose 1,6 bisphosphate fructose 6 phosphate bypass phosphofructokinase-1 rate limit step gluconeogenesis activate atp directly glucagon indirectly decrease level fructose 2,6 bisphosphate inhibit amp directly insulin indirectly increase level fructose 2,6 bisphosphate glucose-6 phosphatase convert glucose 6 phosphate free glucose bypass glucokinase find endoplasmic reticulum liver pentose phosphate pathway pentose phosphate pathway ppp know hexose monophosphate hmp shunt occur cytoplasm cell generate nadph sugar biosynthesis derive rate limit enzyme glucose-6 phosphate dehydrogenase activate nadp+ insulin inhibit nadph answer concept check adipose tissue muscle high ~15 mm low ~5 mm saturate normal physiological condition yes saturate glucose level slightly 5 serve glucose sensor cause release insulin pancreatic 2 glut 4 saturate glucose level slightly 5 mm glucose entry increase increase number transporter insulin promote fusion vesicle contain preform glut 4 cell membrane 1 hexokinase phosphorylate glucose form glucose 6 phosphate trap glucose cell inhibit glucose 6 phosphate irreversible glucokinase phosphorylate trap glucose liver pancreatic cell work glut 2 glucose sensor β islet cell liver cell induce

glut 2 glucose sensor β islet cell liver cell induce insulin irreversible pfk-1 catalyze rate limit step glycolysis phosphorylate fructose 6 phosphate fructose 1,6 bisphosphate atp inhibit atp citrate glucagon activate amp fructose 2,6 bisphosphate insulin irreversible glyceraldehyde-3 phosphate dehydrogenase generate nadh phosphorylate glyceraldehyde 3 phosphate 1,3-bisphosphoglycerate reversible 3 phosphoglycerate kinase perform substrate level phosphorylation transfer phosphate 1,3- bisphosphoglycerate adp form atp 3 phosphoglycerate reversible pyruvate kinase perform substrate level phosphorylation transfer phosphate phosphoenolpyruvate pep adp form atp pyruvate activate fructose 1,6-

bisphosphate irreversible 2 fermentation occur regenerate nad+ limited supply cell fermentation generate atp energy carrier merely regenerate coenzyme need glycolysis 3 binding 2,3 bpg decrease hemoglobin affinity oxygen fetal hemoglobin able steal oxygen maternal hemoglobin placental interface disadvantageous lower affinity oxygen 1 galactose phosphorylate galactokinase trap cell galactose- 1 phosphate uridyltransferase produce glucose 1- phosphate glycolytic intermediate link pathway 2 fructose phosphorylate fructokinase trap cell small contribution hexokinase aldolase b produce dihydroxyacetone phosphate dhap glyceraldehyde phosphorylate form glyceraldehyde 3 phosphate glycolytic intermediate link pathway 1 pyruvate nad+ coa reactant pdh complex acetyl coa nadh co2 product 2 acetyl coa inhibit pdh complex product enzyme complex buildup acetyl coa citric acid cycle fatty acid oxidation signal cell energetically satisfied production acetyl coa slow stop pyruvate form product oxaloacetate use 1 glycogen core protein glycogenin linear chain glucose emanate center connect α-1,4 glycosidic link chain branched require α-1,6 2 glycogen synthase attach glucose molecule udp glucose grow glycogen chain form α-1,4 link process branch enzyme create branch break α-1,4 link grow chain move block oligoglucose location glycogen granule oligoglucose attach α-1,6 3 glycogen phosphorylase remove glucose molecule glycogen phosphate break α-1,4 link create glucose 1- phosphate debranche enzyme move glucose branch long glycogen chain break α-1,4 link form new α-1,4 link long chain branchpoint leave remove break α-1,6 link

α-1,4 link long chain branchpoint leave remove break α-1,6 link form free molecule glucose 1 gluconeogenesis occur individual fast > 12 hour carry gluconeogenesis hepatic renal cell energy drive process glucose creation require sufficient fat store undergo β oxidation phosphoenolpyruvate carboxykinase pepck 3 acetyl coa inhibit pyruvate dehydrogenase complex activate pyruvate carboxylase net effect shift burn pyruvate citric acid cycle create new glucose molecule rest body acetyl coa regulation come predominantly β- oxidation glycolysis 4 enzyme gluconeogenesis glucose-6 phosphatase patient von gierke disease

unable perform gluconeogenesis addition glycogenolysis mean patient unable produce glucose period fast result hypoglycemia furthermore give blocker gluconeogenic pathway buildup intermediate include lactate result lactic acidosis expect 1 major metabolic product pentose phosphate pathway ribose 5 phosphate nadph 2 nadph involve lipid biosynthesis bactericidal bleach formation certain white blood cell maintenance glutathione store protect reactive oxygen specie science mastery assessment glut 2 receptor b high km express hepatocyte liver concentration glucose blood high glucose transport liver order kinetic pancreas glut 2 glucokinase serve glucose sensor observation support b right answer liver like cell need constant supply glucose able produce glucose gluconeogenesis cell kidney complete low level gluconeogenesis cell list absolutely dependent glucose source blood energy use fuel addition glucose example brain utilize ketone body lengthy period starvation require glucose proper function glut abbreviation glucose transporter describe family sugar transporter vary distribution activity glut 4 find adipose tissue muscle mediate insulin stimulate glucose uptake fact insulin responsive glucose transporter insulin act receptor translocate glut 4 plasma membrane glut 4 skeletal muscle stimulate exercise insulin-

overnight fast liver produce glucose glucokinase activity insignificant glucokinase trap extra glucose liver cell storage mechanism low blood glucose liver cell generate new glucose store pancreas serve glucose sensor glucose level low little activity tissue malate dehydrogenase α ketoglutarate dehydrogenase c citric acid cycle enzyme phosphofructokinase-1 d glycolytic enzyme enzyme glycolysis citric acid cycle gluconeogenesis phosphofructokinase-1 expect maintain normal activity overnight fast glucose derive glycogen gluconeogenesis orally ingest question ask enzyme role trap sugar cell phosphofructokinase c rate limit enzyme glycolysis role phosphorylate fructose-6 phosphate fructose-1,6 bisphosphate step glycolysis importantly substrate phosphofructokinase i.e. fructose-6 phosphate phosphorylate reach phosphofructokinase fructose- 6 phosphate trap cell reach phosphofructokinase reason say phosphofructokinase trap sugar cell contrast b d eliminate hexokinase phosphorylate glucose

galactokinase phosphorylate galactose fructokinase phosphorylate fructose reaction trap previously unphosphorylated sugar pyruvate convert primarily main intermediate acetyl coa b citric acid cycle pyruvate dehydrogenase complex lactate d fermentation lactate dehydrogenase oxaloacetate c gluconeogenesis pyruvate carboxylase high level acetyl coa produce β oxidation inhibit pyruvate dehydrogenase shift citric acid cycle run reverse direction produce oxaloacetate gluconeogenesis acetyl coa stimulate pyruvate pattern describe child glycogen demonstrate appropriate production long chain glucose monomer imply glycogen synthase work branch point imply branch enzyme b work glycogenolysis child able remove individual glucose monomer process glycogen branch point require glycogen phosphorylase α-1,4 α-1,4 transferase c metabolic problem remove final glucose branch point α-1,6 α-1,4 link require d α-1,6 glucosidase citrate produce citrate synthase acetyl coa oxaloacetate reaction take place mitochondria citric acid cycle slow citrate accumulate cytosol act negative allosteric regulator phosphofructokinase-1 enzyme catalyze rate- limit step glycolysis biochemical pathway enzymatic reaction regulatory control occur beginning pathway pathway branch point pyruvate dehydrogenase pdh complex control link glycolysis citric acid cycle decarboxylate pyruvate end product glycolysis production nadh acetyl coa substrate citric acid cycle intense exercise

expect pdh highly active generate atp adp level high atp burn muscle acetyl coa b inhibitor pdh cause shift pyruvate gluconeogenic pathway high nadh nad+ ratio c imply cell energetically satisfied need energy expect intensely exercise muscle question right answer molecule metabolism impact inhibition phosphofructokinase-1 pfk1 enzyme pfk1 catalyze rate limit step glycolysis sugar enter glycolytic pathway rate limit step i.e. downstream pfk1 impact inhibition pfk1 give criterion recall metabolic pathway fructose choice b phosphorylate cleave glyceraldehyde dhap enter glycolysis downstream pfk1 metabolism fructose depend pfk-1 impact inhibition pfk1 make b correct answer contrast glucose c metabolise usual glycolytic pathway impact inhibition pfk1 similarly galactose d phosphorylate subsequently isomerize

glucose-6- phosphate follow usual pathway impact inhibition pfk1 lactose cleave lactase glucose galactose reason b d base question stem infer antibiotic oxidative stress patient antibiotic antimalarial medication infection certain food like fava bean common exposure induce oxidative stress pentose phosphate pathway responsible generate nadph reduce glutathione natural antioxidant present body individual glucose-6- phosphate dehydrogenase g6pd deficiency nadph produce sufficient level oxidative stress lead cell membrane protein hemoglobin damage note need actually know disease answer question merely know enzyme pentose phosphate pathway involve mitigate oxidative stress sufficient irreversible enzyme glycolysis hexokinase glucokinase liver pancreatic β cell phosphofructokinase-1 pyruvate kinase pyruvate dehydrogenase consider glycolytic enzyme require mitochondria function list show correct pairing glycolytic enzyme gluconeogenic enzyme hexokinase glucokinase glucose-6 phosphatase pyruvate kinase pyruvate carboxylase phosphoenolpyruvate fast liver contribute glucose bloodstream main process glycogenolysis early intermediate fasting gluconeogenesis intermediate late fasting process continue normal basal level decrease activity fast deficiency branch enzyme result chain unbranched glycogen glycogen synthase affect chain length normal indicate normal abundance α-1,4 linkage loss branching correspond decrease α-1,6 linkage ratio α-1,4 α-1,6 increase division small denominator yield large value make correct answer hexokinase catalyze important irreversible step glycolysis rate limit

correct answer hexokinase catalyze important irreversible step glycolysis rate limit step phosphofructokinase-1 catalyze rate limit step glycolysis glycogen synthase b catalyze rate limit step glycogenesis glucose-6 phosphate dehydrogenase c catalyze rate- limit step pentose phosphate pathway fructose-1,6- bisphosphatase > d catalyze rate limit step gluconeogenesis consult online resource additional practice biochemistry chapter 4 carbohydrate structure function biochemistry chapter 10 carbohydrate metabolism ii biochemistry chapter 12 bioenergetic regulation metabolism biology chapter 7 cardiovascular system general

chemistry chapter 5 general chemistry chapter 11 carbohydrate metabolism ii pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 myocardial infarction oxygen supply area heart dramatically reduce force cardiac myocyte switch anaerobic metabolism condition following enzyme activate increase level a. succinate dehydrogenase c. isocitrate dehydrogenase d. pyruvate dehydrogenase 2 patient expose toxic compound increase permeability mitochondrial membrane proton following metabolic change expect a. increase atp level b. increase oxygen utilization c. increase atp synthase activity d. decrease pyruvate dehydrogenase activity 3 following incorrectly pair metabolic process site occurrence b. citric acid cycle outer mitochondrial membrane c.

site occurrence b. citric acid cycle outer mitochondrial membrane c. atp phosphorylation cytosol mitochondria d. electron transport chain inner mitochondrial membrane 4 following process following net reaction 2 acetyl coa + 6 nad+ + 2 fad + 2 gdp + 2 pi + 6 h2o 4 co2 + 6 nadh + 2 fadh2 + 2 gtp + 6 h+ + 2 coash a. pyruvate decarboxylation c. tricarboxylic acid cycle d. electron transport chain 5 glucose degradation aerobic condition a. oxygen final electron acceptor b. oxygen necessary atp synthesis

c. net water consume d. proton motive force necessary atp synthesis 6 fatty acid enter catabolic pathway form b. adipose tissue d. ketone body 7 follow method produce acetyl coa cell exception a. decarboxylation pyruvate b. catabolism ketogenic amino acid c. reduction fatty acid d. metabolism alcohol 8 cell cytochrome c locate a. mitochondrial matrix b. outer mitochondrial membrane c. inner mitochondrial membrane 9 follow correctly show atp produce give high energy carrier a. fadh2 1 atp b. fadh2 1.5 atp c. nadh 3 atp d. nadh 3.5 atp 10 preferable cleave thioester link typical ester link aerobic metabolism a. oxygen conserve electron transport chain b. thioester hydrolysis high energy yield c. typical ester hydrolysis occur vivo d. thioester cleavage require energy 11 enzyme convert gdp gtp a. nucleosidediphosphate phosphatase b. nucleosidediphosphate kinase c. isocitrate dehydrogenase d. pyruvate dehydrogenase 12 follow well explain cytosolic nadh yield potentially atp mitochondrial nadh a. cytosolic nadh lose energy transfer b. nadh enter matrix cytosol c. electron transfer cytosol matrix d. energy cost bring cytosolic nadh 13 high dose aspirin function mitochondrial uncoupler affect glycogen store a. cause depletion glycogen store b. effect glycogen store c. promote additional storage glucose glycogen d. effect glycogen store vary cell cell 14 complex contribute proton motive force a. complex b. complex ii c. complex iii d. complex iv 15 following directly provide energy need form atp mitochondrion a. electron transfer electron transport chain b. electrochemical proton gradient c. oxidation acetyl coa d. β oxidation fatty acid carbohydrate metabolism ii chapter method form acetyl coa 10.2 reaction citric acid cycle net result atp yield 10.3 electron transport chain electron flow complex proton motive force

10.4 oxidative phosphorylation content chapter relevant 6 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism hear eat peach pit deadly start panic snack study break know accuracy statement debatable true digest peach pit result formation trace amount cyanide concentration far low clinically worrisome cyanide poison bind irreversibly cytochrome a3 protein locate electron

transport chain mitochondria deadly block electron transport chain etc inhibit aerobic respiration yield atp body require function properly cyanide poisoning leave cell unable utilize oxygen aerobic respiration block oxygen bind etc symptom resemble tissue hypoxia perceive difficulty breathe general weakness high dose cardiac arrest follow death metabolic pathway describe chapter 9 mcat biochemistry review don't produce energy oxygen glycolysis depend oxygen yield net 2 atp molecule glucose nearly maintain body energy requirement bring test topic mcat citric acid cycle oxidative phosphorylation chapter close look gain product glycolysis derivative metabolic pathway enter citric acid cycle look process regulate regard substrate product reaction involve lastly observe happen cycle product undergo oxidative phosphorylation particular emphasis electron transport chain facilitate process atp yield chapter 10.1 able detail potential energy source synthesis acetyl coa identify major input output pyruvate dehydrogenase complex citric acid cycle call krebs cycle tricarboxylic acid tca cycle occur mitochondria main function cycle oxidation acetyl coa CO_2 H_2O.

addition cycle produce high energy electron carry molecule nadh fadh2 acetyl- coa obtain metabolism carbohydrate fatty acid amino acid make key molecule crossroad metabolic pathway highly testable compound similar gluco–/glyco terminology chapter 9 mcat biochemistry review critical straight enzyme contain pyruvate pyruvate dehydrogenase pdh regulator pdh kinase pdh phosphatase pyruvate carboxylase enzyme gluconeogenesis method form acetyl coa recall chapter 9 mcat biochemistry review glucose undergo glycolysis product pyruvate enter mitochondrion active transport oxidize decarboxylate reaction catalyze multienzyme complex call pyruvate dehydrogenase complex locate mitochondrial matrix deep look enzyme complex substrate product reaction helpful follow carbon molecule example carbon pyruvate cleave two- carbon acetyl group carbon dioxide reaction irreversible explain glucose form directly acetyl coa. mammal pyruvate dehydrogenase complex enzyme pyruvate dehydrogenase pdh dihydrolipoyl transacetylase dihydrolipoyl dehydrogenase pyruvate dehydrogenase kinase pyruvate dehydrogenase phosphatase work concert convert

pyruvate acetyl coa regulate action pdh figure 10.1 show overall reaction conversion pyruvate acetyl coa.

reaction exergonic δg′= 33.4 kj mol complex inhibit accumulation acetyl coa nadh occur electron transport chain properly function inhibit figure 10.1 overall reaction pyruvate dehydrogenase complex note coenzyme coa write coash reaction coa thiol contain sh group acetyl coa form covalent attachment acetyl group sh group result formation thioester contain sulfur instead typical oxygen ester formation thioester typical ester worth noting high energy property thioester thioester undergo reaction hydrolysis significant energy release drive reaction forward like citric acid cycle pyruvate dehydrogenase complex enzyme need catalyze acetyl coa formation list sequential order mechanism show figure 10.2 figure 10.2 mechanism pyruvate dehydrogenase study pathology affect central cholinergic system alzheimer disease huntington disease alcoholism decrease glucose metabolism oxidative phosphorylation observe brain ongoe research hopefully determine result lack acetyl coa cause disease result disease decrease amount acetyl coa energy production concern production neurotransmitter acetylcholine pyruvate dehydrogenase pdh pyruvate oxidize yield co2 remain carbon molecule bind covalently thiamine pyrophosphate vitamin b1 tpp tpp coenzyme hold noncovalent interaction pdh mg2 + require dihydrolipoyl transacetylase carbon molecule bond tpp oxidize transfer lipoic acid coenzyme covalently bond enzyme lipoic acid disulfide group act oxidize agent create acetyl group acetyl group bond lipoic acid thioester linkage dihydrolipoyl transacetylase catalyze coash interaction newly form thioester link cause transfer acetyl group form acetyl coa. lipoic acid leave reduce form dihydrolipoyl dehydrogenase flavin adenine dinucleotide fad coenzyme order reoxidize lipoic acid allow lipoic acid facilitate acetyl coa formation future reaction lipoic acid reoxidize fad reduce fadh2 subsequent reaction fadh2 reoxidize fad nad+ reduce nadh form mitochondrial acyl coa undergo β oxidation process discuss chapter 11 mcat biochemistry review glycolysis heavily review heavily test contributor production acetyl coa pathway capable form acetyl- coa.

pathway act fatty acid ketogenic amino acid ketone body alcohol description pathway provide ultimate production acetyl coa allow pathway culminate final common pathway citric acid cycle fatty acid oxidation β oxidation cytosol process call activation cause thioester bond form carboxyl group fatty acid coash activate fatty acyl coa cross inner mitochondrial membrane fatty acyl group transfer carnitine transesterification reaction show figure 10.3 carnitine molecule cross inner membrane fatty acyl group tow acyl carnitine cross inner membrane transfer fatty acyl group mitochondrial coash transesterification reaction word carnitine function merely carry acyl group cytosolic coash mitochondrial coash acyl coa form matrix β- oxidation occur remove carbon fragment figure 10.3 fatty acid activation transport amino acid catabolism certain amino acid form acetyl- coa. amino acid lose amino group transamination carbon skeleton form ketone body amino acid term ketogenic reason conversion ketone body acetyl coa mention ketone acetyl coa typically produce ketone pyruvate dehydrogenase complex inhibit reverse reaction occur alcohol alcohol consume moderate amount enzyme alcohol dehydrogenase acetaldehyde dehydrogenase convert acetyl coa.

reaction accompany nadh buildup inhibit kreb cycle acetyl coa form process primarily synthesize fatty acid brain normally use glucose energy condition starvation ketone body brain major source energy mcat concept check 10.1 assess understanding material question 1 overall reaction pyruvate dehydrogenase complex 2 molecule acetyl coa body perform conversion mechanism conversion acetyl coa 10.2 reaction citric acid cycle chapter 10.2 able explain purpose citric acid cycle include major input output identify importance key enzyme citric acid cycle recall inhibitor activator enzyme citrate synthase isocitrate dehydrogenase alpha ketoglutarate dehydrogenase complex citric acid cycle take place mitochondrial matrix begin coupling molecule acetyl coa molecule oxaloacetate part molecule oxidize carbon dioxide energy gtp energy carrier nadh fadh2 produce substrate product cycle reuse oxygen

directly require cycle pathway occur anaerobically nadh fadh2 accumulate oxygen available electron transport chain inhibit cycle look individual reaction place citric acid cycle overemphasize process exactly call cycle series reaction overview cycle provide figure 10.4 deep look step figure 10.4 citric acid cycle step 1 citrate formation acetyl coa oxaloacetate undergo condensation reaction form citryl coa intermediate hydrolysis citryl coa yield citrate coash reaction catalyze citrate synthase discuss chapter 2 mcat biochemistry review synthase enzyme form new covalent bond need significant energy second step energetically favor formation citrate help cycle revolve forward direction reaction see figure 10.5 figure 10.5 citrate formation step 2 citrate isomerize isocitrate achiral citrate isomerize possible isomer isocitrate citrate bind point enzyme aconitase water lose citrate yield cis- aconitate finally water add form isocitrate enzyme metalloprotein require fe2 + figure 10.6 result switching hydrogen hydroxyl group overall step necessary facilitate subsequent oxidative decarboxylation figure 10.6 citrate isomerize isocitrate step 3 α ketoglutarate co2 formation isocitrate oxidize oxalosuccinate isocitrate dehydrogenase oxalosuccinate decarboxylate produce α ketoglutarate co2 show figure 10.7 important step know test day isocitrate dehydrogenase rate

figure 10.7 important step know test day isocitrate dehydrogenase rate limit enzyme citric acid cycle carbon cycle lose nadh produce intermediate cycle figure 10.7 α ketoglutarate co2 formation dehydrogenase subtype oxidoreductase enzyme catalyze oxidation reduction reaction dehydrogenase transfer hydride ion h electron acceptor usually nad+ fad dehydrogenase aerobic metabolism lookout high energy electron carrier form step 4 succinyl coa co2 formation reaction carry α ketoglutarate dehydrogenase complex similar mechanism cofactor coenzyme pyruvate dehydrogenase pdh complex formation succinyl coa α ketoglutarate coa come produce molecule carbon dioxide show figure 10.8 carbon dioxide represent second carbon lose cycle reduce nad+ produce nadh figure 10.8

succinyl coa co2 formation citrate synthase require energy input order form covalent bond succinyl- coa synthetase certainly pay careful attention enzyme name little thing add careless mistake test day step 5 succinate formation hydrolysis thioester bond succinyl coa yield succinate coash couple phosphorylation gdp gtp reaction catalyze succinyl coa synthetase show figure 10.9 synthetase unlike synthase create new covalent bond energy input recall early discussion

thioester bond regard acetyl coa unique hydrolysis accompany significant release energy phosphorylation gdp gtp drive energy release thioester hydrolysis gtp form enzyme call nucleosidediphosphate kinase catalyze phosphate transfer gtp adp produce atp note time entire citric acid cycle atp produce directly atp production occur predominantly electron transport chain figure 10.9 succinate formation step 6 fumarate formation step citric acid cycle place mitochondrial matrix instead occur inner membrane let look succinate undergo oxidation yield fumarate reaction catalyze succinate dehydrogenase succinate dehydrogenase consider flavoprotein covalently bond fad electron acceptor reaction enzyme integral protein inner mitochondrial membrane succinate oxidize fumarate fad reduce $FADH_2$ molecule $FADH_2$ pass electron carry electron transport chain eventually lead production 1.5 atp unlike nadh rise 2.5 atp fad electron acceptor reaction reduce power succinate great reduce nad+ substrate citric acid cycle sell seashell money officer step 7 malate formation enzyme fumarase catalyze hydrolysis alkene bond fumarate give rise malate enantiomeric form possible l malate form reaction step 8 oxaloacetate form anew enzyme malate dehydrogenase catalyze oxidation malate oxaloacetate final molecule nad+ reduce nadh newly form oxaloacetate ready turn citric acid cycle gain high energy electron carrier possible turn cycle step citric acid cycle succinate oxaloacetate show figure 10.10 final step citric acid cycle net result atp yield let step net yield step take start pyruvate dehydrogenase complex recall product reaction include acetyl coa nadh citric acid cycle step 3 4 8 produce nadh step 6 form $FADH_2$ step 5 yield gtp convert atp carbon leave cycle form CO_2 nadh convert approximately 2.5

atp fadh2 molecule yield 1.5 atp total chemical energy harvest pyruvate list pyruvate dehydrogenase complex pyruvate + coash + nad+ acetyl coa + nadh + co2 + h+ citric acid cycle acetyl coa + 3 nad+ + fad + gdp + pi + 2 h2o

 2 co2 + coash + 3 nadh + 3 h+ + fadh2 + gtp 4 nadh 10 atp 2.5 atp nadh 1 fadh2 1.5 atp 1.5 atp fadh2 1 gtp 1 atp total 12.5 atp pyruvate = 25 atp glucose glycolysis yield atp nadh provide seven molecule atp net yield atp glucose molecule glycolysis oxidative phosphorylation 30–32 atp note efficiency glycolysis vary slightly cell cell range atp yield molecule glucose let test day follow question follow inhibitor isocitrate dehydrogenase start panic step use critical thinking hear isocitrate dehydrogenase merely isocitrate krebs cycle know fair attempt question energy atp energy carrier nadh fadh2 product process make sense molecule negative feedback effect citric acid cycle consider big picture face question like outline regulation occur citric acid cycle look recur theme energy product inhibit energy production process pyruvate dehydrogenase complex regulation upstream actual starting point citric acid cycle regulate mechanism happen phosphorylation pdh facilitate enzyme pyruvate dehydrogenase kinase level atp rise phosphorylate pdh inhibit acetyl- coa production conversely pyruvate dehydrogenase complex reactivate enzyme pyruvate dehydrogenase phosphatase response high level adp remove phosphate pdh pyruvate dehydrogenase phosphatase able reactivate acetyl coa production acetyl coa negative feedback effect production alternative fuel source fat acetyl coa production sufficient redundant continue produce acetyl coa carbohydrate metabolism eat high fat meal fill quickly atp nadh marker cell satisfy energetically inhibit pdh control point citric acid cycle essential checkpoint regulate citric acid cycle allosteric activator inhibitor regulate detail mechanism outline figure 10.11 figure 10.11 checkpoint regulation citric acid cycle citrate synthase atp nadh function allosteric inhibitor citrate synthase make sense product indirect direct respectively enzyme citrate allosterically inhibit citrate synthase directly succinyl coa.

isocitrate dehydrogenase discuss beginning section enzyme catalyze citric acid cycle likely inhibit energy product atp nadh conversely adp nad+ function allosteric activator enzyme enhance affinity substrate α ketoglutarate dehydrogenase complex reaction product succinyl coa nadh function inhibitor enzyme complex atp inhibitory slow rate cycle cell high level atp complex stimulate adp calcium ion note high level atp nadh inhibit citric acid cycle high level adp nad+ promote coincidence energy consume large amount atp convert adp nadh convert nad+ atp adp ratio nadh nad+ ratio help determine citric acid cycle inhibit activate metabolically active state adp nad+ level rise atp nadh level decline induce activation checkpoint describe replace energy active tissue mcat concept check 10.2 assess understanding material question 1 purpose reaction collectively citric acid 2 enzyme catalyze rate limit step citric acid cycle 3 main site regulation citric acid cycle molecule inhibit activate main checkpoint 10.3 electron transport chain chapter 10.3 able connect reaction electron transport chain generation atp distinguish shuttle mechanism nadh transport recall input output major component complex electron transport chain electron transport chain final common pathway utilize harvest electron different fuel body important distinction flow electron proton gradient generate ultimately produce atp aerobic metabolism efficient way generate energy live system mitochondrion reason eukaryote aerobic component respiration execute mitochondrion anaerobic process glycolysis fermentation occur cytosol look figure 10.12 notice component mitochondrion critical harvesting energy citric acid cycle take place mitochondrial matrix assembly need complete oxidative phosphorylation house adjacent matrix inner membrane mitochondria inner mitochondrial membrane assemble fold call crista maximize surface area inner mitochondrial membrane essential generate atp proton motive force electrochemical proton gradient generate complex electron figure 10.12

mitochondrial structure final step aerobic respiration actually step electron transport inner mitochondrial membrane generation atp adp phosphorylation process actually separate entity coupled explain step make great deal sense electron rich molecule nadh fadh2 form

byproduct early step respiration transfer electron carrier protein locate inner mitochondrial membrane finally electron give oxygen form hydride ion h water form happen energy release transport electron facilitate proton transport specific location chain proton move mitochondrial matrix intermembrane space mitochondrion create great concentration gradient hydrogen ion drive electron flow complex formation atp endergonic electron transport exergonic pathway couple reaction energy yield reaction fuel order energy harness electron transport reaction protein inner membrane transfer electron donate nadh fadh2 specific order direction physical property determine direction electron flow reduction potential recall chapter 12 mcat general chemistry review pair molecule different reduction potential molecule high potential reduce molecule oxidize electron transport chain series oxidation reduction occur mechanism nadh good electron donor high reduction potential oxygen make great final acceptor electron transport chain organizational structure membrane bind complex transport chain diagram figure 10.13 figure 10.13 respiratory complex inner mitochondrial membrane step 1 2 complex iii draw separate step clarity coqh2 cytochrome c oxidoreductase complex complex nadh coq oxidoreductase transfer electron nadh coenzyme q coq catalyze complex complex 20 subunit highlight include protein iron sulfur cluster flavoprotein oxidize nadh flavoprotein coenzyme call flavin mononucleotide fmn covalently bond fmn similar structure fad flavin adenine dinucleotide step reaction involve nadh transfer electron fmn oxidize nad+ fmn reduce fmnh2 flavoprotein reoxidize iron sulfur subunit reduce finally reduce iron sulfur subunit donate electron receive fmnh2 coenzyme q call ubiquinone coenzyme q coqh2 complex site proton pumping occur proton move intermembrane space nadh + h+ + fmn   nad+ + fmnh2 fmnh2 + 2 fesoxidize   fmn + 2 fesreduce + 2 h+ 2 fesreduce +

fmn + 2 fesreduce + 2 h+ 2 fesreduce + coq + 2 h+   2 fesoxidize + coqh2 net effect pass high energy electron nadh coq nadh + h+ + coq   nad+ + coqh2 complex ii succinate coq oxidoreductase like complex complex ii transfer electron coenzyme q. complex receive

electron nadh complex ii actually receive electron succinate remember succinate citric acid cycle intermediate oxidize fumarate interact fad fad covalently bond complex ii succinate oxidize convert fadh2 fadh2 get reoxidize fad reduce iron sulfur protein final step reoxidize iron sulfur protein coenzyme q reduce succinate dehydrogenase responsible oxidize succinate fumarate citric acid cycle make sense succinate dehydrogenase complex ii note hydrogen pumping occur contribute proton gradient succinate + fad $\rightarrow$ fumarate + fadh2 fadh2 + fesoxidize $\rightarrow$ fad + fesreduced fesreduced + coq + 2 h+ $\rightarrow$ fesoxidized + coqh2 net effect

pass high energy electron succinate coq succinate + coq + 2 h+ $\rightarrow$ fumarate + coqh2 unlike iron cytochrome iron heme group hemoglobin remain fe2 + transport oxygen bloodstream normal condition ubiquinone create correspond phenol oxidation represent example quinone 2,5 cyclohexadiene-1,4 dione fascinating compound explore chapter 5 mcat organic chemistry review complex iii coqh2 cytochrome c oxidoreductase call cytochrome reductase complex facilitate transfer electron coenzyme q cytochrome c step complex iii draw separate complex figure 10.13 illustrate sequential reaction occur complex step occur complex coenzyme q.

overall reaction write follow step involve oxidation reduction cytochrome protein heme group iron reduce fe2 + reoxidize fe3 + coqh2 + 2 cytochrome c fe3 + $\rightarrow$ coq + 2 cytochrome c fe2 + + 2 h+ transfer electron iron electron transfer reaction coenzyme q electron transfer cytochrome c molecule need complex iii main contribution proton motive force q cycle q cycle electron shuttle molecule ubiquinol coqh2 near intermembrane space molecule ubiquinone coq near mitochondrial matrix electron attach heme moiety reduce molecule cytochrome c. carrier contain iron sulfur assist process shuttle electron proton displace intermembrane space q cycle continue increase gradient proton motive force inner mitochondrial membrane coenzyme q cytochrome c technically complex describe able freely inner mitochondrial membrane degree mobility allow carrier transfer electron physically interact component transport chain cyanide mention introduction chapter inhibitor cytochrome subunit a3 cyanide anion able attach iron group prevent transfer electron tissue rely heavily aerobic

respiration heart central nervous system greatly impact complex iv cytochrome c oxidase complex facilitate culminate step electron transport chain transfer electron cytochrome c oxygen final electron acceptor complex include subunit cytochrome cytochrome a3 cu2 + ion cytochrome a3 cytochrome oxidase series redox reaction cytochrome oxidase get oxidize oxygen reduced form water final location transport chain proton pumping occur proton move membrane role proton pumping play atp synthesis essential describe detail overall reaction 4 cytochrome c fe2 + + 4 h+ + o2 4 cytochrome c fe3 + + 2 h2o biochemistry guide example expert mitochondrial disorder genetically clinically heterogeneous mainly affect energy demand organ impair oxidative phosphorylation complex deficiency nadh ubiquinone oxidoreductase electron transport chain prevalent oxidative phosphorylation disorder treatment option currently limited success anecdotal report increase muscle endurance diet modification follow report study seek examine dietary treatment option complex deficiency focus big idea complex etc goal study

option complex deficiency focus big idea complex etc goal study diet help dutch female patient know complex deficiency subject hplc base metabolite profiling blood plasma urine reveal metabolic abnormality patient muscle endurance examine perform bicycle test dietary intake assessment base patient usual diet 34.5 energy derive fat dietary intervention study perform patient instruct consume high carbohydrate diet 3 week 25 energy derive fat subsequently high fat diet 3 week 55 energy derive fat bicycle endurance test perform diet difference muscle endurance bicycle test examine direct substrate infusion compare intra lipid infusion glucose infusion condition mean oxygen consumption vo2 mean measure bicycle test result plot assess long patient bike measure muscle diet high carb diet high fat diet glucose infuse fat infuse bike test iv diet dv time spend bike trend long bike high fat diet low glucose infusion adapt theunissen t. gerards m. hellebrekers d. van tienen f. h. kamps r. sallevelt s. smeets h. 2017 selection characterization palmitic acid responsive patient oxphos complex defect frontiers molecular neuroscience 10 336 accord datum good treatment option patient

complex deficiency question stem start accord datum need ensure firm understanding passage present context datum experimental context introduce paragraph 1 malfunction complex etc hypothesis center dietary treatment help increase muscle endurance recall content background etc function transfer electron nadh fadh2 electron acceptor create proton gradient fuel production atp coupling etc atp synthase term oxidative phosphorylation require availability oxygen oxygen final electron acceptor etc atp require muscle contraction oxygen essential component etc high endurance high oxygen consumption indicate high level aerobic respiration question ask mechanism good treatment option analyze datum treatment good accord graph high fat diet allow patient endure bicycle test long high level oxygen consumption good treatment option diet high proportion fat conclusion support fact lipid infusion give high value compare glucose infusion

support fact lipid infusion give high value compare glucose infusion high fat diet aspect question address examine why?"—why ingest high fat work way prior knowledge recall metabolism fat generate acetyl coa acetyl coa enter citric acid cycle produce nadh fadh2 complex receive electron nadh complex ii receive electron fadh2 patient complex disorder production fadh2 fuel aerobic respiration large difference high fat high carbohydrate diet especially consider fact metabolism glucose eventually generate acetyl coa glycolysis break glucose pyruvate generate nadh ratio fadh2 nadh high fat metabolism vs. carbohydrate metabolism lead efficient generation energy funnel electron carrier complex summary good treatment patient complex deficiency high fat diet increase funneling electron carrier proton motive force let step look proton gradient form electron pass etc h+ increase intermembrane space thing happen simultaneously ph drop intermembrane space voltage difference intermembrane space matrix increase proton pumping change contribute refer electrochemical gradient gradient chemical electrostatic property base proton refer electrochemical gradient inner mitochondrial membrane proton motive force electrochemical gradient store energy responsibility atp synthase harness energy form atp adp inorganic

phosphate look net atp yield glucose note range exist 30 32 efficiency aerobic respiration vary cell variable efficiency cause fact cytosolic nadh form glycolysis directly cross mitochondrial matrix contribute electron transport chain directly find alternate mean transportation refer shuttle mechanism shuttle mechanism transfer high energy electron nadh carrier cross inner mitochondrial membrane depend shuttle mechanism nadh participate 1.5 2.5 atp end produce let look glycerol 3 phosphate important link lipid metabolism discuss chapter 11 mcat biochemistry review glycolysis discuss chapter 9 ability convert dhap intermediate glycolysis mean glycerol triacylglycerol shunt glycolysis energy glycerol 3 phosphate shuttle cytosol contain isoform glycerol-3 phosphate dehydrogenase oxidize cytosolic nadh nad+ form glycerol 3 phosphate dihydroxyacetone phosphate dhap outer face inner mitochondrial membrane exist isoform glycerol-3 phosphate dehydrogenase fad dependent mitochondrial fad

membrane exist isoform glycerol-3 phosphate dehydrogenase fad dependent mitochondrial fad oxidize agent end reduce fadh2 reduce fadh2 proceed transfer electron etc complex ii generate 1.5 atp molecule cytosolic nadh participate pathway show figure 10.14 figure 10.14 glycerol-3 phosphate shuttle malate aspartate shuttle cytosolic oxaloacetate pass inner mitochondrial membrane reduce malate accomplish cytosolic malate dehydrogenase accompany reduction oxidation cytosolic nadh nad+ malate cross matrix mitochondrial malate dehydrogenase reverse reaction form

mitochondrial nadh nadh matrix pass electron etc complex generate 2.5 atp molecule nadh recycle malate require oxidation oxaloacetate transaminate form aspartate aspartate cross cytosol reconvert oxaloacetate restart cycle show figure 10.15 figure 10.15 malate aspartate shuttle mcat concept check 10.3 assess understanding material question 1 complex(e associate follow circle apply pump proton intermembrane acquire electron nadh acquire electron fadh2 have high reduction potential 2 role electron transport chain play generation

atp 3 base need shuttle mechanism cardiac muscle likely utilize 10.4 oxidative phosphorylation chapter 10.4 able compare contrast etc oxidative phosphorylation explain etc generate atp direct reduction oxygen arrive payout site aerobic respiration atp synthesis know nuance atp synthesis absolute test day link electron transport atp synthesis start protein complex call atp synthase span entire inner mitochondrial membrane protrude matrix small fraction 13 approximately 100 polypeptide necessary oxidative phosphorylation encode mitochondrial dna significance fact mitochondrial dna mutation rate nearly time high nuclear proton motive force interact portion atp synthase span membrane call f0 portion f0 function ion channel proton travel f0 gradient matrix happen process call chemiosmotic coupling allow chemical energy gradient harness means phosphorylate adp form atp word etc generate high concentration proton intermembrane space proton flow f0 ion channel atp synthase matrix happen portion atp synthase call f1 portion utilize energy release electrochemical gradient phosphorylate adp atp demonstrate figure 10.16 specific mechanism adp actually phosphorylate matter figure 10.16 atp synthase reaction atp synthase generate atp adp inorganic phosphate allow high energy proton concentration gradient create electron transport chain chemiosmotic coupling describe direct relationship proton gradient atp synthesis predominant mechanism accept scientific community describe oxidative phosphorylation mechanism call conformational coupling suggest relationship proton gradient atp synthesis indirect instead atp release synthase result conformational change cause gradient mechanism f1 portion atp synthase reminiscent turbine spin stationary compartment facilitate harnessing gradient

atp synthase reminiscent turbine spin stationary compartment facilitate harnessing gradient energy chemical bonding know generate atp energy require proton motive force dissipate f0 portion atp synthase free energy change reaction δg′ 220 kj highly exergonic reaction make sense phosphorylate adp form atp endergonic process couple reaction energy harness reaction drive tackle complex mechanism chemiosmotic coupling test day easy mistake

interpret ph drop h+ drop instead rise proton concentration read actively avoid mistake uncoupler compound prevent atp synthesis affect etc greatly decrease efficiency etc oxidative phosphorylation pathway adp build atp synthesis decrease body respond perceive lack energy increase O_2 consumption nadh oxidation energy produce transport electron release heat example fever experience toxic level salicylate include aspirin citric acid cycle provide electron rich molecule feed etc come surprise rate oxidative phosphorylation citric acid cycle closely coordinate think O_2 adp key regulator oxidative phosphorylation O_2 limit rate oxidative phosphorylation decrease concentration nadh fadh2 increase accumulation nadh turn inhibit citric acid cycle coordinated regulation pathway know respiratory control presence adequate O_2 rate oxidative phosphorylation dependent availability adp concentration adp atp reciprocally relate accumulation adp accompany decrease atp energy available cell adp accumulation signal need atp synthesis adp allosterically activate isocitrate dehydrogenase increase rate citric acid cycle production nadh fadh2 elevated level reduce coenzyme turn increase rate electron transport atp synthesis mcat concept check 10.4 assess understanding material question 1 difference etc oxidative phosphorylation link 2 δg ° nadh reduce oxygen directly significantly great individual step electron transport chain case transfer electron etc generate atp direct reduction oxygen nadh topic discuss chapter citric acid cycle oxidative phosphorylation place mitochondria mitochondrial matrix citric acid cycle completely oxidize acetyl coa carbon dioxide happen energy conserve reduction reaction form high energy electron carrier fadh2 nadh atp indirectly form gtp synthesis electron rich carrier transfer electron electron transport chain

gtp synthesis electron rich carrier transfer electron electron transport chain locate inner mitochondrial membrane series oxidation reduction reaction occur specific complex oxygen final electron acceptor get reduce form H_2O.

electrical pathway generate electrochemical proton gradient harness atp synthase generate

atp link process highlight fact control citric acid cycle nadh dependent nadh accumulate isocitrate dehydrogenase inhibition occur stop citric acid cycle electron transport chain worth note glycolysis major source acetyl coa citric acid cycle fatty acid serve important source chapter turn attention metabolism type biomolecule lipid amino acid review content test knowledge critical thinking skill complete test like passage set online resource acetyl coa contain high energy thioester bond drive reaction hydrolysis occur form pyruvate pyruvate dehydrogenase complex enzyme complex mitochondrial matrix form inhibit acetyl coa nadh pyruvate dehydrogenase pdh oxidize pyruvate create CO_2 require thiamine pyrophosphate vitamin b1 tpp Mg^{2+} dihydrolipoyl transacetylase oxidize remain carbon molecule lipoic acid transfer result acetyl group coa form acetyl coa.

dihydrolipoyl dehydrogenase use fad reoxidize lipoic acid form fadh2 fadh2 later transfer electron nad+ form nadh feed electron transport chain pyruvate dehydrogenase kinase phosphorylate pdh atp acetyl coa level high turn pyruvate dehydrogenase phosphatase dephosphorylate pdh adp level high turn acetyl coa form fatty acid enter mitochondria carrier fatty acid couple coa cytosol form fatty acyl- coa move intermembrane space acyl fatty acid group transfer carnitine form acyl- carnitine cross inner membrane acyl group transfer mitochondrial coa form fatty acyl- coa undergo β oxidation form acetyl- acetyl coa form carbon skeleton ketogenic amino acid ketone body alcohol reaction citric acid cycle citric acid cycle take place mitochondrial matrix main purpose oxidize carbon intermediate CO_2 generate high energy electron carrier nadh fadh2 gtp key enzyme reaction citrate synthase couple acetyl coa oxaloacetate hydrolyze result product form citrate coash enzyme regulate negative feedback atp nadh succinyl coa citrate aconitase isomerize citrate isocitrate isocitrate dehydrogenase oxidize decarboxylate isocitrate form α ketoglutarate enzyme generate CO_2 nadh cycle rate limit step citric acid cycle heavily regulate atp nadh inhibitor adp nad+ activator α ketoglutarate dehydrogenase complex act similarly pdh complex metabolize α ketoglutarate form succinyl coa.

enzyme generate second co2 second nadh cycle inhibit atp nadh succinyl coa activate adp ca2 + succinyl coa synthetase hydrolyze thioester bond succinyl coa form succinate coash enzyme generate gtp generate cycle succinate dehydrogenase oxidize succinate form fumarate flavoprotein anchor inner mitochondrial membrane require fad reduce form fadh2 generate cycle fumarase hydrolyze alkene bond fumarate form malate malate dehydrogenase oxidize malate oxaloacetate enzyme generate final nadh cycle electron transport chain electron transport chain take place matrix face surface inner mitochondrial membrane nadh donate electron chain pass complex etc progress reduction potential increase oxygen high reduction potential receive electron complex nadh coq oxidoreductase use iron sulfur cluster transfer electron nadh flavin mononucleotide fmn coenzyme q coq form coqh2 proton translocate complex i. complex ii succinate coq oxidoreductase use

iron sulfur cluster transfer electron succinate fad coq form coqh2 proton pumping occur complex ii complex iii coqh2 cytochrome c oxidoreductase use iron sulfur cluster transfer electron coqh2 heme form cytochrome c q cycle proton translocate complex iii complex iv cytochrome c oxidase use cytochrome cu2 + transfer electron form hydride ion h cytochrome c oxygen form water proton translocate complex iv nadh cross inner mitochondrial membrane available shuttle mechanism transfer electron mitochondrial matrix glycerol 3 phosphate shuttle electron transfer nadh dihydroxyacetone phosphate dhap form glycerol 3 phosphate electron transfer mitochondrial fad form fadh2 malate aspartate shuttle electron transfer nadh oxaloacetate form malate malate cross inner mitochondrial membrane transfer electron mitochondrial nad+ form nadh proton motive force electrochemical gradient generate electron transport chain inner mitochondrial membrane intermembrane space high concentration proton matrix gradient store energy form atp chemiosmotic coupling atp synthase enzyme responsible generate atp adp inorganic phosphate pi f0 portion ion channel allow proton flow gradient intermembrane space matrix f1 portion use energy release

gradient phosphorylate adp atp follow summary energy yield carbohydrate metabolism process glycolysis generate 2 nadh 2 atp pyruvate dehydrogenase generate 1 nadh molecule pyruvate glucose form molecule pyruvate complex produce net 2 nadh citric acid cycle generate 3 nadh 1 fadh2 1 gtp 6 nadh 2 fadh2 2 gtp molecule glucose nadh yield 2.5 atp 10 nadh form 25 atp fadh2 yield 1.5 atp 2 fadh2 form 3 atp gtp convert atp 2 atp glycolysis + 2 atp gtp citric acid cycle + 25 atp nadh + 3 atp fadh2 = 32 atp molecule glucose optimal inefficiency system variability cell 30–32 atp glucose commonly accept range energy yield answer concept check 1 pyruvate + coash + nad+ acetyl coa + co2 + nadh + h+ mechanism conversion acetyl coa shuttle acyl group cytosolic coa

h+ mechanism conversion acetyl coa shuttle acyl group cytosolic coa sh mitochondrial coa sh carnitine undergo β oxidation transaminate lose nitrogen convert carbon skeleton ketone body convert acetyl coa reverse ketone body formation alcohol dehydrogenase acetaldehyde dehydrogenase convert alcohol 1 complete oxidation carbon intermediate co2 reduction reaction couple co2 formation form energy carrier nadh fadh2 electron transport 2 isocitrate dehydrogenase atp nadh succinyl coa citrate atp nadh succinyl coa 1 pump proton intermembrane space iii iv acquire electron nadh acquire electron fadh2 ii have high reduction potential iv reduction potential increase etc 2 electron transport chain generate proton motive force electrochemical gradient inner mitochondrial membrane provide energy atp synthase function 3 malate aspartate shuttle mechanism efficient make sense highly aerobic organ heart utilize order maximize atp yield 1 etc physical set intermembrane protein locate inner mitochondrial matrix undergo oxidation reduction reaction transfer electron oxygen final electron acceptor electron transfer proton motive force generate intermembrane space oxidative phosphorylation process atp generate harness proton gradient utilize atp synthase 2 split electron transfer complex energy release facilitate creation proton gradient location great proton gradient great atp generation direct reduction oxygen nadh release significant energy environment result inefficient electron transport science mastery assessment

phosphofructokinase-1 pfk-1 catalyze rate limit step glycolysis enzyme list function anaerobic condition enzyme involve oxygen require process discuss chapter succinate dehydrogenase appear citric acid cycle complex ii electron transport chain isocitrate dehydrogenase c catalyze rate limit step citric acid cycle pyruvate dehydrogenase d enzyme pyruvate dehydrogenase complex increase permeability inner mitochondrial membrane allow proton motive force dissipate location f0 portion atp synthase atp synthase active form atp invalidate c body attempt regenerate proton motive force increase fuel catabolism eliminate d increase fuel use require oxygen utilization electron transport chain citric acid cycle take place mitochondrial matrix outer mitochondrial membrane citric acid

cycle take place mitochondrial matrix outer mitochondrial membrane citric acid cycle enzyme locate matrix succinate dehydrogenase locate inner necessary net reaction memorize metabolic process answer question need identify key reactant product case start acetyl coa end coash notice reaction

nad+ fad reduce nadh fadh2 co2 form metabolic process reaction occur citric acid cycle call tricarboxylic acid tca krebs cycle question test general knowledge cellular respiration notice type cellular respiration aerobic anaerobic start degradation glucose glycolysis aerobic respiration oxygen final electron acceptor water produce end electron transport chain oxygen need aerobic respiration order produce optimal 32 molecule atp glucose method atp produce glycolysis provide 2 atp glucose need oxygen make b d incorrect water mention c produce aerobic metabolism consume fat molecule store adipose tissue hydrolyze lipase fatty acid glycerol glycerol convert glyceraldehyde 3- phosphate glycolytic intermediate fatty acid activate cytoplasm couple fatty acid coash form fatty acyl- coa. fatty acid transfer molecule carnitine carry inner mitochondrial membrane inside fatty acid transfer mitochondrial coash form fatty acyl coa.

fatty acid oxidation fatty acyl coa acetyl coa enter citric acid cycle base wording question choice produce acetyl coa aerobic metabolism decarboxylation pyruvate pyruvate dehydrogenase complex yield acetyl coa nadh co2 source acetyl coa include amino acid catabolism beta oxidation fatty acid alcohol metabolism fatty acid produce reduction acetyl coa reduce make c correct cytochrome c carry electron coqh2 cytochrome c oxidoreductase complex iii cytochrome c oxidase complex iv electron transport chain etc take place inner mitochondrial oxidative phosphorylation energy harvest energy carrier fadh2 nadh order form atp molecule mitochondrial fadh2 oxidize produce 1.5 molecule atp similarly molecule mitochondrial nadh oxidize produce 2.5 molecule atp electron transport chain thioester link release great deal energy hydrolyze make suit respiration reaction driver particularly useful release energy typical ester cleavage thioester formation hydrolysis require great deal energy make d conversion gdp gtp phosphorylation reaction phosphate group add molecule reaction catalyze kinase nomenclature helpful nucleosidediphosphate kinase enzyme contain kinase wording answer choice critical electron cytosolic nadh enter mitochondrion shuttle mechanism glycerol 3 phosphate shuttle ultimately move electron mitochondrial fad malate aspartate shuttle ultimately move electron mitochondrial nad+ electron transfer malate aspartate shuttle energy lose make d incorrect nadh enter matrix directly make b incorrect fact electron use pathway lose energy atp synthesis account potentially decrease yield atp cytosolic uncoupler inhibit atp synthesis affect electron transport chain body burn fuel maintain proton motive force glycogen store mobilize feed glycolysis tca finally oxidative phosphorylation complex ii complex etc contribute proton gradient complex iii add proton gradient complex iv add proton gradient answer contribute energy production electrochemical gradient proton motive force directly drive phosphorylation atp f1 portion atp synthase consult online resource additional practice biochemistry chapter 2 biochemistry chapter 4 carbohydrate structure function biochemistry chapter 9 carbohydrate metabolism biochemistry chapter 11 lipid amino acid metabolism biochemistry chapter

metabolism biochemistry chapter 11 lipid amino acid metabolism biochemistry chapter 12 bioenergetic regulation metabolism general chemistry chapter 12 lipid amino acid pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 following hormone directly regulate activity hormone sensitive lipase adipose tissue 2 fate long chain fatty acid contain a. transport chylomicron release lymphatic b. transport chylomicron release circulatory c.

direct diffusion intestine lymphatic system d. direct diffusion intestine circulatory system 3 fatty acid mobilization following occur(i. hsl activate ii free fatty acid release iii gluconeogenesis proceed adipocyte a. b. iii c. ii d. ii iii 4 chylomicron vldl differ a. chylomicron contain apoprotein vldl b. chylomicron synthesize intestine vldl synthesize liver c. chylomicron transport triacylglycerol vldl transport d. vldl term chylomicron remnant differ 5 following result absence i. inability secrete lipid transport lipoprotein ii inability endocytose lipoprotein iii decrease ability remove excess cholesterol blood a. b. iii c. ii d. ii iii 6 statin drug inhibit hmg coa reductase likely a. hypercholesterolemia high cholesterol b. hypertriglyceridemia high triacylglycerol c. hypocholesterolemia low cholesterol d. visceral adiposity obesity 7 function lcat a. lcat catalyze production cholesteryl ester b. lcat catalyze production cholesterol c. lcat

catalyze transfer cholesteryl ester d. lcat catalyze transfer cholesterol 8 fatty acid synthesize human 9 follow well characterize process fatty acid a. reduction follow dehydration bond formation b. reduction follow activation bond formation dehydration c. activation follow bond formation reduction dehydration d. activation follow bond formation oxidation dehydration 10 follow well describe body create process ketone body a. ketone body produce peroxisome liver cell period fasting b. acetyl coa convert acetoacetate 3 hydroxybutyrate acetone utilize energy c. ketone body produce mitochondria liver cell prolong fasting d. brain organ use ketone body 11 majority triacylglycerol store adipocyte originate a. synthesis adipocyte b. dietary intake c. ketone body d. synthesis liver 12 2,4 dienoyl coa reductase oxidation a. saturated fatty acid b. monounsaturated fatty acid c. polyunsaturated fatty acid 13 follow true ketolysis a. ketolysis occur brain b. ketolysis occur liver c. ketolysis generate acetyl coa. d. ketolysis increase glucose metabolism 14 following amino acid provide energy 15 follow likely result protein degradation processing liver a.

fatty acid lipid amino acid metabolism chapter 11.1 lipid digestion absorption 11.2 lipid mobilization 11.3 lipid transport vldl low density lipoprotein idl intermediate density lipoprotein ldl low density lipoprotein hdl high density lipoprotein 11.4 cholesterol metabolism 11.5 fatty acid triacylglycerol 11.6 ketone body 11.7 protein catabolism content chapter relevant 2 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism week winter season begin bear certain mammal increase food intake prepare hibernation time increase weight store energy different organism store fuel supply different way hamster store extra food pouch cheek cactus absorb conserve water preparation dry season hibernate animal store extra calorie fat course winter fat store mobilize metabolize basic bodily function minimal hibernation come spring summer reserve replenish preparation winter season human store extra energy fat hibernate winter fat store allow store energy use prolonged period chapter 11 contain complex difficult material book content chapter particularly high yield test day see chapter

profile chapter worth review content relevant student seek mastery testable content extremely competitive discuss chapter 8 mcat biochemistry review lipid play major role maintain structure function cell important role storage molecule energy biological signaling chapter examine metabolism lipid start ingestion food particle continue absorption transport energy catabolism cover energy storage lipid synthesis metabolism cholesterol ketone body addition learn protein degradation feed lipid carbohydrate pathway urea cycle 11.1 lipid digestion absorption chapter 11.1 able differentiate lipid digestion stomach lipid digestion identify method lipid enter circulation describe structure micelle addition major source energy body lipid serve variety function body instance fat soluble vitamin play role coenzyme prostaglandin steroid hormone necessary control maintenance homeostasis aberrant lipid metabolism associate clinical manifestation atherosclerosis obesity digestion cover chapter 9 mcat biology review dietary fat consist mainly triacylglycerol remainder comprise cholesterol cholesteryl ester phospholipid free fatty acid lipid

remainder comprise cholesterol cholesteryl ester phospholipid free fatty acid lipid digestion minimal mouth stomach lipid transport small intestine essentially intact entry duodenum emulsification occur mixing normally immiscible liquid case fat water formation emulsion increase surface area lipid permit great enzymatic interaction processing emulsification aid bile contain bile salt pigment cholesterol bile secrete liver store gallbladder finally pancreas secrete pancreatic lipase colipase cholesterol esterase small intestine enzyme hydrolyze lipid component 2 monoacylglycerol free fatty acid cholesterol figure 11.1 summarize digestion absorption dietary figure 11.1 absorption lipid emulsification follow absorption fat intestinal cell free fatty acid cholesterol 2 monoacylglycerol bile salt contribute formation micelle cluster amphipathic lipid soluble aqueous environment intestinal lumen essentially micelle water soluble sphere lipid soluble interior micelle vital digestion transport absorption lipid soluble substance start duodenum way end ileum end ileum bile salt actively reabsorb recycle fat remain intestine pass colon ultimately end absorption small intestine colon follow

characteristic pattern good time review digestion discuss chapter 9 mcat biology review create complete schema absorption metabolism macronutrient micelle diffuse brush border intestinal mucosal cell absorb digest lipid pass brush border absorb mucosa esterify form triacylglycerol cholesteryl ester package certain apoprotein fat- soluble vitamin lipid chylomicron chylomicron leave intestine lacteal vessel lymphatic system enter bloodstream thoracic duct long lymphatic vessel empty left subclavian vein base neck water soluble short chain fatty acid absorb simple diffusion directly mcat concept check 11.1 assess understanding material question 1 lipid leave stomach stage digestion accomplish enzyme add accomplish phase 2 true false lipid enter circulation lymphatic system 3 describe structure micelle 11.2 lipid mobilization chapter 11.2 able identify condition hormone promote lipid mobilization predict ratio free fatty acid glycerol molecule break lipid night body postabsorptive state utilize energy store instead food fuel postabsorptive state fatty acid release adipose tissue energy human adipose tissue respond

fatty acid release adipose tissue energy human adipose tissue respond directly glucagon fall insulin level activate hormone sensitive lipase hsl hydrolyze triacylglycerols yield fatty acid glycerol epinephrine cortisol activate hsl show figure 11.2 discuss effect hormone metabolism detail chapter release glycerol fat transport liver glycolysis gluconeogenesis hsl effective adipose cell lipoprotein lipase lpl necessary metabolism chylomicron low density lipoprotein vldl lpl enzyme release free fatty acid triacylglycerol figure 11.2 mobilization triacylglycerols metabolism liver mcat concept check 11.2 assess understanding material question 1 patient diabete begin insulin injection management blood glucose level expect impact patient weight 2 ratio free fatty acid glycerol produce lipid mobilization 11.3 lipid transport chapter 11.3 able describe mean transport free fatty acid blood order lipoprotein accord percentage protein lipid transport explain relationship liver intestinal epithelium relation recall major structural component lipoprotein free fatty acid transport blood association albumin carrier protein triacylglycerol cholesterol transport blood lipoprotein aggregate apolipoprotein lipid show

figure 11.3 lipoprotein name accord density increase direct proportion percentage protein particle chylomicron dense high fat protein ratio vldl low density lipoprotein slightly dense follow idl intermediate density ldl low density hdl high density main function lipoprotein show table 11.1 note chylomicron vldl primarily carry triacylglycerol contain small quantity cholesteryl ester ldl hdl primarily cholesterol transport molecule figure 11.3

lipoprotein structure table 11.1 class lipoproteins transport dietary triacylglycerol cholesterol cholesteryl ester intestine tissue transport triacylglycerol fatty acid liver tissue pick cholesteryl ester hdl ldl pick deliver cholesterol cell pick cholesterol accumulate blood vessel deliver cholesterol liver steroidogenic tissue transfer apolipoprotein chylomicron highly soluble lymphatic fluid blood function transport dietary triacylglycerol cholesterol cholesteryl ester tissue assembly chylomicron occur intestinal lining result nascent chylomicron contain lipid vldl low density lipoprotein vldl metabolism similar chylomicron vldl produce assemble liver cell like chylomicron main function vldl transport triacylglycerol tissue vldls contain fatty acid synthesize excess glucose retrieve chylomicron remnant chylomicron vldl primarily carry triacylglycerol ldl hdl primarily carry cholesterol idl intermediate transition state vldl ldl occur primary lipid lipoprotein change triacylglycerol cholesterol idl intermediate density lipoprotein triacylglycerol remove vldl result particle refer vldl remnant idl idl reabsorb liver apolipoprotein exterior process bloodstream example idl pick cholesteryl ester hdl ldl idl exist transition particle triacylglycerol transport associate chylomicron vldl cholesterol transport associate ldl hdl process show figure 11.4 figure 11.4 lipid transport lipoprotein tgl = triacylglycerol ce = cholesteryl ester chol = cholesterol ldl low density lipoprotein ldl hdl primarily cholesterol particle majority cholesterol measure blood associate ldl normal role ldl deliver cholesterol tissue biosynthesis cholesterol play important role cell membrane addition bile acid salt cholesterol liver tissue require cholesterol steroid hormone synthesis physician order blood test cholesterol actually measure level ldl hdl blood hdl consider

good cholesterol pick excess cholesterol blood vessel excretion hdl high density lipoprotein hdl synthesize liver intestine release dense protein- rich particle blood hdl contain apolipoprotein cholesterol recovery cleaning excess cholesterol blood vessel excretion hdl deliver cholesterol steroidogenic tissue transfer necessary apolipoprotein apolipoprotein refer apoprotein form protein component lipoprotein describe apolipoprotein receptor molecule involve signaling highly unlikely specific function apolipoprotein test mcat briefly summarize illustrate diverse purpose apoa activate lcat enzyme catalyze cholesterol apob-48 mediate chylomicron secretion apob-100 permit uptake ldl liver apoc ii activate lipoprotein lipase apoe permit uptake chylomicron remnant vldl mcat concept check 11.3 assess understanding material question 1 primary method transport free fatty acid blood 2 order lipoprotein great percentage protein percentage protein circle molecule primarily involved triacylglycerol transport 3 lipoprotein synthesize primarily organ 4 physician order lipid panel evaluate patient value prefer minimum threshold maximum 11.4 cholesterol metabolism chapter 11.4 able predict optimal condition hmg coa reductase activity recall function citrate shuttle hmg coa reductase lcat cetp cholesterol ubiquitous component cell human body play major role synthesis cell membrane steroid hormone bile acid vitamin d. cell derive cholesterol ldl hdl cholesterol synthesize de novo de novo synthesis cholesterol occur liver drive acetyl coa atp citrate shuttle carry mitochondrial acetyl coa cytoplasm synthesis occur nadph pentose phosphate pathway supply reduce equivalent synthesis mevalonic acid smooth endoplasmic reticulum ser rate limit step cholesterol biosynthesis catalyze 3 hydroxy-3 methylglutaryl hmg coa reductase cholesterol synthesis regulate way increased level cholesterol inhibit synthesis feedback inhibition mechanism insulin promote cholesterol synthesis control de novo cholesterol synthesis dependent regulation hmg coa reductase gene expression cell specialized enzyme involve transport cholesterol include lcat cetp lecithin cholesterol acyltransferase lcat enzyme find bloodstream activate hdl apoprotein lcat add fatty acid cholesterol produce soluble cholesteryl ester hdl hdl cholesteryl ester distribute lipoprotein like idl ldl acquire cholesteryl

hdl cholesteryl ester distribute lipoprotein like idl ldl acquire cholesteryl ester cholesteryl ester transfer protein cetp facilitate transfer process mcat concept check 11.4 assess understanding material question 1 condition hmg coa reductase active cellular region exist 2 protein specific formation transmission cholesteryl ester function 11.5 fatty acid triacylglycerol chapter 11.5 able recall sequence step addition acetyl coa grow fatty differentiate β oxidation unsaturated fatty acid saturated fatty acid identify cellular location involve fatty acid synthesis modification fatty acid predict structure base nomenclature fatty acid long chain carboxylic acid carboxyl carbon carbon 1 carbon 2 refer α carbon fatty acid find body occur salt capable form micelle esterify compound membrane lipid discuss chapter 8 mcat biochemistry review describe fatty acid total number carbon give number double bond write carbon double bond description give indicate position isomerism double bond unsaturated fatty acid saturated fatty acid double bond unsaturated fatty acid double bond human synthesize unsaturated fatty acid rest come essential fatty acid find diet transport chylomicron triacylglycerols intestine important essential fatty acid α linolenic acid linoleic acid polyunsaturated fatty acid acid form important maintain cell membrane fluidity critical proper functioning cell omega ω numbering system unsaturated fatty acid ω designation describe position double bond relative end chain identify major precursor fatty acid example linoleic acid 18:2 cis cis-9,12 precursor ω-6 family include arachidonic acid α linolenic acid 18:3 cis-9,12,15 primary precursor ω-3 family double bond natural fatty acid generally cis configuration trans double bond uncommon natural fatty acid predominate fatty acid find margarine food use partial hydrogenation vegetable oil preparation compare liquid oil partially hydrogenate fatty acid solid room temperature fatty acid contribute arterial disease decrease fatty acid body fuel supply primarily diet addition excess carbohydrate protein acquire diet convert fatty acid store energy reserve form triacylglycerol lipid carbohydrate synthesis call nontemplate

synthesis process rely directly coding nucleic acid unlike protein nucleic acid synthesis fatty acid biosynthesis fatty acid biosynthesis show figure 11.5 occur liver product subsequently transport adipose tissue storage adipose tissue synthesize small quantity fatty acid major enzyme fatty acid synthesis acetyl coa carboxylase fatty acid synthase stimulate insulin palmitic acid palmitate primary end product fatty acid synthesis figure

11.5 fatty acid synthesis glucose follow large meal acetyl coa accumulate mitochondrial matrix need move cytosol fatty acid biosynthesis acetyl coa product pyruvate dehydrogenase complex couple oxaloacetate form citrate beginning citric acid cycle remember isocitrate dehydrogenase rate limit enzyme citric acid cycle cell energetically satisfied slow citric acid cycle cause citrate accumulation citrate diffuse mitochondrial membrane cytosol citrate lyase split citrate acetyl coa oxaloacetate oxaloacetate return mitochondrion continue move acetyl coa. acetyl coa activate cytoplasm incorporation fatty acid acetyl coa carboxylase rate limit enzyme fatty acid biosynthesis acetyl coa carboxylase require biotin atp function add CO_2 acetyl coa form malonyl coa.

enzyme activate insulin citrate CO_2 add form malonyl coa actually incorporate fatty acid remove fatty acid synthase addition activate acetyl group fatty acid fatty acid synthase fatty acid synthase appropriately call palmitate synthase palmitate fatty acid human synthesize de novo fatty acid synthase large multienzyme complex find cytosol rapidly induce liver follow meal high carbohydrate elevated insulin level enzyme complex contain acyl carrier protein acp require pantothenic acid vitamin b5 nadph require reduce acetyl group add fatty acid acetyl-coa group require produce palmitate 16:0 fatty acyl coa elongate desaturate limited extent enzyme associate smooth endoplasmic reticulum ser step involve fatty acid biosynthesis show figure 11.6 include attachment acyl carrier protein bond formation activate malonyl coa malonyl- acp growing chain reduction carbonyl group dehydration reduction double bond reaction occur sixteen carbon palmitate molecule create reaction reverse β oxidation figure

11.6 action fatty acid synthase reaction include activation growing chain malonyl coa b acp bond formation activate molecule c reduction carbonyl hydroxyl group d dehydration e reduction saturated fatty acid f fatty acid synthesis β oxidation reverse process involve transport mitochondrial membrane follow series redox reaction opposite direction understand process enable answer question pathway triacylglycerol triglyceride synthesis triacylglycerol storage form fatty acid form attach fatty acid fatty acyl coa glycerol triacylglycerol formation fatty acid glycerol 3 phosphate occur primarily liver somewhat adipose tissue small contribution directly diet liver triacylglycerol package send adipose tissue low density lipoprotein vldl leave small fatty acid catabolism proceed β oxidation occur mitochondria peroxisomal β oxidation occur branched- chain fatty acid undergo α oxidation depend branch point ω oxidation endoplasmic reticulum produce dicarboxylic acid aware process exist mechanism scope mcat in- depth look β oxidation heavily test insulin indirectly inhibit β oxidation glucagon stimulate process fatty acid metabolize activate attachment coa catalyze fatty acyl coa synthetase product

metabolize activate attachment coa catalyze fatty acyl coa synthetase product generically refer fatty acyl coa acyl coa.

specific example acetyl coa contain 2 carbon acyl group palmitoyl coa 16 carbon acyl group fatty acid entry mitochondria short chain fatty acid 2 4 carbon medium chain fatty acid 6 12 carbon diffuse freely mitochondrion oxidize contrast long chain fatty acid 14 20 carbon oxidize mitochondria require transport carnitine shuttle show figure 11.7 carnitine acyltransferase rate limit enzyme fatty acid oxidation long chain fatty acid 20 carbon oxidize cell figure 11.7 fatty acid activation transport β oxidation mitochondria β oxidation reverse process fatty acid synthesis oxidize release reduce link molecule acetyl coa. pathway repetition step step cycle release acetyl- coa reduce nad+ fad produce nadh fadh2 fadh2 nadh oxidize electron transport chain produce atp muscle adipose tissue acetyl coa enter citric acid cycle liver acetyl coa

convert glucose stimulate gluconeogenesis activate pyruvate carboxylase fast state liver produce acetyl coa β oxidation citric acid cycle acetyl coa synthesize ketone body essentially acetyl coa molecule link release bloodstream transport tissue step β oxidation illustrate figure 11.8 figure 11.8 β oxidation 1 oxidation fatty acid form double bond 2 hydration double bond form hydroxyl group 3 oxidation hydroxyl group form carbonyl β ketoacid 4 splitting β ketoacid short acyl coa acetyl coa process continue chain shorten carbon create final acetyl coa.

fatty acid odd number carbon atom undergo β oxidation manner number carbon fatty acid difference observe final cycle number fatty acid yield acetyl coa molecule four- carbon remain fragment odd number fatty acid yield acetyl- coa propionyl coa carbon remain fragment show figure 11.9 propionyl coa convert methylmalonyl coa propionyl coa carboxylase require biotin vitamin b7 methylmalonyl coa convert succinyl coa methylmalonyl- coa mutase require cobalamin vitamin b12 succinyl coa citric acid cycle intermediate convert malate enter gluconeogenic pathway cytosol odd carbon fatty acid represent exception rule fatty acid convert glucose human figure 11.9 propionic acid pathway discuss oxidation saturated fatty acid unsaturated fatty acid additional enzyme necessary double bond disturb stereochemistry need oxidative enzyme act fatty acid function enzyme double bond active site bond locate carbon 2 3 enoyl coa isomerase show figure 11.10

rearrange cis double bond 3,4 position trans double bond 2,3 position acetyl coa liberate isolate double bond carbon monounsaturated fatty acid single step permit β oxidation proceed figure 11.10 reaction enoyl coa isomerase polyunsaturated fatty acid reduction require 2,4- dienoyl coa reductase convert conjugate double bond double bond 3,4 position undergo rearrangement monounsaturated fatty acid show figure 11.11 form trans 2,3 double bond figure 11.11 reaction 2,4 dienoyl coa reductase biochemistry guide example expert think propionic acidemia pa life threaten disease cause deficiency mitochondrial biotin dependent

enzyme know propionyl coenzyme carboxylase pcc enzyme responsible degrade metabolic intermediate propionyl coenzyme pp coa create methylmalonyl coa mm- coa pp coa commonly find end product β oxidation fatty acid chain odd number carbon pp coa metabolic intermediate arise normal turnover essential amino acid native pcc holoenzyme compose α pcca β pccb subunit type subunit functional enzyme operative deficiency pcc subunit consequent accumulation pp coa lead pathogenesis pa topic pa disease cause lot detail important pcc detail pcc structure 6 α 6 β need subunit work enzyme replacement therapy approach aim restore activity enzyme case deficiency abnormal production overcome challenge delivery targeting protein mitochondria live cell group peptide fusion call twin arginine technique passage try restore activity translocation tat mitochondrial targeting sequence mts employ purified construct subunit tat mts fusion pcca pccb tat fusion pcca pccb incubate time period pcca- pccb defective cell lymphocyte lymphocyte endogenously express non defective pcc subunit mitochondrion subsequently isolate lyse reaction terminate addition trichloroacetic acid level mm- coa assay ultra performance liquid chromatography tandem mass spectrometry uplc ms ms normal pcca- pccb- deficient def cell include control result plot figure 1 2 issue difficult produce protein solution cpp mts fuse protein interest pcc subunit assay level mm coa measure pcc iv time assay type construct dv level mm coa

pcc iv time assay type construct dv level mm coa difference mm coa level 24 hour add compare absence pcca iv time assay type construct dv level mm coa difference mm coa level 12 24 hour pccb- compare absence adapt darvish damavandi m. ho h.k. kang t.s. 2016 development enzyme replacement therapy metabolic disorder propionic acidemia accord datum mts tat pcc construct able successfully rescue pcc activity deficient mitochondrion question begin accord datum mean require understand analyze datum present context experiment describe passage give multiple complex figure important context experiment datum represent researcher explore treatment option disease cause deficient pcc important metabolic enzyme mitochondria tell pcc require type subunit order function properly common

method restore protein activity cell transcriptional translational level cell method employ study produce require protein outside cell add protein cell know content background protein generally polar challenge get protein past lipid bilayer cellular mitochondrial membrane researcher solution problem fuse pcc subunit peptide pcc membrane target mitochondria note cell line express non deficient subunit cell line figure 1 express functional pccb pcca add deliver mitochondria pcc activity opposite true cell line figure 2 dive datum

experimental layout result similar pcca pccb fusion pcc subunit fuse tat absence fusion level mm coa similar pcc subunit fuse mts tat significantly high level mm coa. paragraph tell pcc catalyze pp coa produce mm coa product measure experiment high level mm coa correlate pcc activity result indicate pcc activity rescue exogenously express pcc subunit fuse mitochondrial target cell permeate protein mcat concept check 11.5 assess understanding material question 1 draw following fatty acid palmitic acid 18:3 cis-9,12,15 ω-6 2 step addition acetyl coa grow fatty acid chain 3 β oxidation unsaturated fatty acid differ saturated fatty 4 true false fatty acid synthesize cytoplasm modify enzyme smooth endoplasmic reticulum 11.6 ketone body chapter 11.6 able predict fatty acid create ketone body glucose recall condition favor ketogenesis ketolysis ketone body essentially transportable form acetyl coa. produce liver tissue prolong starvation fast state liver convert excess acetyl coa β oxidation fatty acid ketone body acetoacetate 3 hydroxybutyrate β- hydroxybutyrate energy tissue cardiac skeletal muscle renal cortex metabolize acetoacetate 3- hydroxybutyrate acetyl coa. fast period muscle metabolize ketone rapidly liver release prevent accumulation bloodstream week fast ketone reach concentration blood high brain begin metabolize process ketogenesis ketolysis show figure 11.12 ketogenesis ketolysis significant increase ketone level blood lead ketoacidosis potentially dangerous medical condition occur fatty acid breakdown type 1 insulin dependent diabetes mellitus ketogenesis occur mitochondria liver cell excess acetyl- coa accumulate fast state hmg coa synthase form hmg- coa hmg coa lyase break hmg coa acetoacetate subsequently reduce 3 hydroxybutyrate acetone minor product form energy tissue

acetoacetate pick blood activate mitochondria succinyl coa acetoacetyl coa transferase commonly call thiophorase enzyme present tissue outside liver reaction acetoacetate oxidize acetoacetyl coa.

liver lack enzyme catabolize ketone body produce ketolysis brain prolong fast long week brain begin derive third energy ketone body brain ketone metabolize acetyl coa pyruvate dehydrogenase inhibit glycolysis glucose uptake brain decrease important switch spare essential protein body catabolize form glucose gluconeogenesis liver allow brain indirectly metabolize fatty acid ketone body mcat concept check 11.6

assess understanding material question 1 fatty acid create ketone body instead create glucose 2 condition tissue favor ketogenesis ketolysis 11.7 protein catabolism chapter 11.7 able identify common source acetyl coa lipid synthesis recall location(s associate large amount protein digestion predict happen carbon skeleton amino group chain protein break protein rarely energy source important function routinely break protein result illness condition extreme energy deprivation protein energy order provide reservoir amino acid protein build cell protein digest absorb metabolism direct conserve tissue great extent possible especially brain heart digestion protein compromise muscle potentially heart unlikely occur normal condition proteolysis breakdown protein begin stomach pepsin continue pancreatic protease trypsin chymotrypsin carboxypeptidases b secrete zymogen protein digestion complete small intestinal brush border enzyme dipeptidase aminopeptidase main end product protein digestion amino acid dipeptide tripeptide absorption amino acid small peptide luminal membrane accomplish secondary active transport link sodium basal membrane simple facilitate diffusion transport amino acid bloodstream figure 11.13 illustrate major transport mechanism involve move amino acid luminal basal membrane intestinal cell figure 11.13 absorption amino acid peptide intestine protein obtain diet body prolonged fasting starvation energy source body protein catabolize primarily muscle liver amino acid release protein

usually lose amino group transamination deamination remain carbon skeleton energy amino acid classify ability turn specific metabolic intermediate glucogenic amino acid leucine lysine convert glucose gluconeogenesis ketogenic amino acid leucine lysine isoleucine phenylalanine threonine tryptophan tyrosine glucogenic convert acetyl- coa ketone body amino group remove transamination deamination constitute potential toxin body form ammonia excrete safely urea cycle show figure 11.14 occur liver body primary way remove excess nitrogen body mcat highly unlikely test step intermediate urea cycle directly provide point reference figure 11.14 urea cycle fate chain amino acid depend chemistry basic amino acid chain feed urea cycle chain act like carbon skeleton produce energy gluconeogenesis ketone

cycle chain act like carbon skeleton produce energy gluconeogenesis ketone production mcat concept check 11.7 assess understanding material question 1 true false bodily protein commonly break provide acetyl coa lipid synthesis 2 bulk protein digestion occur 3 protein processing eventual fate following component carbon skeleton amino group chain point examine vital metabolic process cell chapter review dietary lipid different way lipid metabolize cell cover lipid transport blood lymphatic fluid mobilization lipid adipocyte addition go structure synthesis breakdown fatty acid require address energy need cell importance ketone body utilize cell period starvation review finally go digestion metabolism protein metabolism different macromolecule occur isolation see acetyl coa produce fatty acid oxidation regulate pyruvate dehydrogenase complex pyruvate carboxylase create shift carbohydrate metabolism glycolysis citric acid cycle gluconeogenesis chapter dive different pathway fit integrate metabolic knowledge compile chapter 9 10 11 mcat biochemistry review content test knowledge critical thinking skill complete test like passage set online resource lipid digestion absorption mechanical digestion lipid occur primarily mouth chemical digestion lipid occur small intestine facilitate bile pancreatic lipase colipase cholesterol digest lipid form micelle absorption absorb short chain fatty acid absorb intestine long chain fatty acid absorb micelle assemble chylomicron release lymphatic system lipid mobilize adipocyte hormone sensitive

lipase lipid mobilize lipoprotein lipoprotein lipase chylomicron transport mechanism dietary triacylglycerol molecule transport lymphatic system vldl transport newly synthesize triacylglycerol molecule liver peripheral tissue bloodstream idl vldl remnant transition triacylglycerol cholesterol transport pick cholesteryl ester hdl ldl primarily transport cholesterol use tissue hdl involve reverse transport cholesterol apoprotein control interaction lipoprotein cholesterol obtain dietary source de novo synthesis liver key enzyme cholesterol biosynthesis hmg coa reductase lcat catalyze formation cholesteryl ester transport cetp catalyze transition idl ldl transfer cholesteryl ester hdl fatty acid triacylglycerols fatty acid carboxylic acid typically single long chain branch saturated fatty acid double bond

typically single long chain branch saturated fatty acid double bond carbon unsaturated fatty acid double bond fatty acid synthesize cytoplasm acetyl coa transport mitochondria synthesis include step activation bond formation reduction dehydration second reduction step repeat time form palmitic acid fatty acid human synthesize fatty acid oxidation occur mitochondria follow transport carnitine shuttle β oxidation use cycle oxidation hydration oxidation branch unsaturated fatty acid require special enzyme unsaturated fatty acid use isomerase additional reductase cleavage ketone body form ketogenesis prolonged starvation state excess acetyl coa liver ketolysis regenerate acetyl coa use energy source brain derive third energy ketone body prolong starvation protein digestion occur primarily small intestine catabolism cellular protein occur condition carbon skeleton amino acid energy gluconeogenesis ketone body formation amino group feed urea cycle excretion fate chain depend answer concept check 1 physical digestion accomplish mouth stomach reduce particle size begin small intestine pancreatic lipase colipase cholesterol esterase bile assist chemical digestion lipid distal portion small intestine 2 false small free fatty acid enter circulation directly 3 micelle collection lipid hydrophobic end orient center charged end orient aqueous environment micelle collect lipid hydrophobic center 1 increase insulin level increase lipid storage decrease lipid mobilization adipocyte lead weight gain patient diabetes begin insulin injection 2 ratio free fatty acid

glycerol 3:1 triacylglycerol molecule compose glycerol fatty acid 1 free fatty acid remain blood bond albumin carrier protein small remain unbonded 2 respect protein content hdl > ldl > idl > vldl > chylomicron vldl chylomicron primary triacylglycerol transporter

hdl ldl involved cholesterol 3 lipoprotein synthesize primarily intestine liver 4 mention chapter hdl consider good cholesterol pick excess cholesterol blood vessel excretion crucial role hdl value check minimum value 1 hmg coa reductase active absence cholesterol stimulate insulin cholesterol reduce activity hmg- coa reductase locate smooth endoplasmic reticulum 2 lcat catalyze esterification cholesterol form cholesteryl ester cetp promote transfer cholesteryl ester hdl idl form ldl 1 palmitic acid 16:0 note long double bond position relative end chain answer possible ω-6 fatty acid 2 step attachment acetyl coa fatty acid chain attachment acyl carrier protein bond formation molecule reduction carbonyl group dehydration reduction double bond step show figure 11.6 3 additional isomerase additional reductase β- oxidation unsaturated fatty acid provide stereochemistry necessary oxidation 1 fatty acid degradation result large amount acetyl coa enter gluconeogenic pathway produce glucose odd- numbered fatty acid act source carbon gluconeogenesis final malonyl coa molecule energy package ketone body consumption brain muscle 2 ketogenesis favor prolong fast occur liver stimulate increase concentration acetyl coa.

ketolysis favor prolong fast stimulate low energy state muscle brain tissue occur liver 1 false protein valuable cell lipid commonly break lipid synthesis 2 bulk protein digestion occur small intestine 3 carbon skeleton transport liver processing glucose ketone body amino group feed urea cycle excretion chain process depend composition basic chain process like amino group functional group treat like carbon skeleton science mastery assessment question ask hormone directly regulate activity hormone sensitive lipase hsl hormone sensitive lipase enzyme cleave fatty acid glycerol backbone release free fatty acid use energy production hsl directly activate epinephrine cortisol c d eliminate insulin vs. glucagon observe free fatty acid

mobilization hsl activity generally associate low blood sugar associate elevated glucagon level glucagon directly regulate activity hsl hsl activate drop insulin level reason insulin directly regulate hsl activity eliminate glucagon b directly influence hsl activity b correct answer short chain fatty acid soluble intestinal lumen interact micelle long fatty acid chain long chain fatty acid take intestinal cell package triacylglycerol transport chylomicron chylomicron exit intestine lacteal feed lymphatic system join bloodstream base neck thoracic duct fatty acid mobilization breakdown triacylglycerol adipocyte hormone sensitive lipase hsl breakdown result release fatty acid glycerol molecule glycerol liver gluconeogenesis adipocyte ability carry gluconeogenesis chylomicron vldl similar contain apolipoprotein primarily transport triacylglycerol eliminate c major difference tissue origin chylomicron transport dietary triacylglycerol originate small intestine vldl transport newly synthesize triacylglycerol originate liver transport lipid bind function lipoprotein independent apolipoprotein component interaction lipoprotein environment control exclusively apolipoprotein lipoprotein exit enter cell apolipoprotein unable transfer lipid specialized apolipoprotein cholesterol specific enzyme statin drug prescribe treat high cholesterol act competitive inhibitor hmg coa reductase hmg coa reductase rate limit enzyme de novo cholesterol synthesis inhibition enzyme lower production cholesterol lower overall level lcat add fatty acid cholesterol produce cholesteryl ester dissolve core hdl

add fatty acid cholesterol produce cholesteryl ester dissolve core hdl allow hdl transport cholesterol periphery liver human synthesize fatty acid palmitic acid palmitic acid fully saturated contain double bond palmitic acid 16 carbon synthesize molecule acetyl coa.

shorthand notation palmitic acid write 16:0 16 carbon step fatty acid synthesis activation attachment acyl carrier protein bond formation malonyl coa grow fatty acid chain reduction carboxyl group dehydration reduction ketone body produce mitochondria liver cell acetyl coa accumulate fasting consistent c hand eliminate b observe acetyl coa convert acetoacetate 3

hydroxybutyrate acetone acetone produce byproduct energy conflict assertion b energy muscle cell begin ketone body energy brain brain start ketone body accumulate high concentration blood eliminate choice d liver major metabolic organ body responsible synthesis interconversion fuel source triacylglycerol synthesize liver transport vldl adipose tissue storage adipocyte dietary intake b constitute minor source triacylglycerol order enzyme fatty acid oxidation operate double bond area enzyme activity orient carbon 2 3 order accomplish monounsaturated fatty acid isomerase employ multiple double bond fall enzymatic bind site isomerase 2,4 dienoyl coa reductase require oxidative enzyme act fatty acid question simply recognize dienoyl refer have multiple double bond sufficient arrive ketolysis breakdown ketone body acetyl coa energy process occur brain muscle tissue occur liver lack enzyme necessary ketone body breakdown ketolysis associate increase glucose metabolism occur condition starvation energy contribution amino acid depend ability turn glucose gluconeogenesis glucogenic amino acid ketone body ketogenic amino acid amino acid list answer choice glucogenic isoleucine ketogenic energy acquire amino acid depend number carbon donate energy create process depend size chain isoleucine large chain answer choice contribute energy molecule degradation protein processing liver imply prolonged starvation state protein energy absolutely necessary gluconeogenesis likely process gluconeogenesis possible easily metabolize molecule ketone body synthesize fatty acid production occur energy store protein break store energy fatty consult online resource additional practice biochemistry chapter 1 amino acid peptide protein biochemistry chapter 5 lipid structure function biochemistry chapter 8 biochemistry chapter 12 bioenergetic regulation metabolism biology chapter 9 digestive system biology chapter 10

regulation metabolism biology chapter 9 digestive system biology chapter 10 bioenergetic regulation pre med know feeling content know mcat know important high yield badge book help identify important topic science mastery assessment tool mcat prep arsenal quiz take online resource guidance help ensure spend appropriate time chapter base personal strength

weakness worry skip mean study later prep complete length test uncover specific piece content need review come chapter appropriate use assessment answer 0–7 question correctly spend 1 hour read chapter limited note follow review quiz question ensure understand solve answer 8–11 question correctly spend 20–40 minute review quiz question begin question miss read note correspond subchapter question answer correctly ensure thinking match explanation understand choice correct incorrect answer 12–15 question correctly spend 20 minute review question quiz miss include quick read correspond subchapter relevant content subchapter question review question get correct ensure thinking match explanation review concept summary end chapter 1 add heat close biological system a. increase internal energy system b. increase average vibrational rotational c. cause system work maintain fix internal d. increase enthalpy system 2 25 ° c δg ° certain reaction b + 2 c 0 concentration b c cell 25 ° c 10 mm δg compare measurement take 1 m a. δg great δg ° reaction spontaneous b. δg δg ° reaction spontaneous c. δg great δg ° reaction nonspontaneous d. δg δg ° reaction

nonspontaneous 3 follow statement true hydrolysis a. free energy atp hydrolysis independent ph. b. mole creatine phosphate phosphorylate mole c. free energy hydrolysis atp nearly d. atp yield cyclic amp hydrolysis reaction 4 reduction half reaction step electron transport chain a. o2 + 4e + 4 h+ 2 h2o b. nadph nadp+ + e + h+ c. nadp+ + e + h+ nadph d. ubiquinone q ubiquinol qh2 5 ability exist oxidize reduce state a. adenosine triphosphate atp b. electron carrier c. regulatory enzyme d. peptide hormone 6 energy state describe introduction 7 following correctly pair tissue prefer energy source feed state a. liver ketone body b. adipose tissue fatty acid c. brain amino acid d. cardiac muscle fatty acid 8 hormonal control glycogen metabolism differ a. hormonal control systemic covalent b. hormonal control local covalent c. hormonal control systemic noncovalent d. hormonal control local noncovalent 9 following tissue dependent insulin a. active skeletal muscle b. rest skeletal muscle c. cardiac muscle d. smooth muscle 10 glucocorticoid implicate stress relate weight a. increase appetite decrease satiety signal b. increase activity catabolic hormone c. increase glucose level cause insulin

secretion d. interfere activity leptin receptor 11 absence oxygen tissue experience damage c. red blood cell 12 respiratory quotient approach 0.7 indicate metabolism primarily macromolecule c. nucleic acid d. amino acid 13 following effect anticipate take leptin promote weight loss b. increase appetite 14 follow statement false a. growth hormone participate glucose counterregulation b. t4 act slowly t3 c. atp store turn 10,000 time daily d. catecholamine stimulate sympathetic nervous system 15

process expect begin early prolong fast a. ketone body brain b. glycogen storage halt c. protein break d. enzyme phosphorylation dephosphorylation bioenergetic regulation chapter 12.1 thermodynamic bioenergetic enthalpy entropy free energy 12.2 role atp atp energy carrier hydrolysis coupling phosphoryl group transfer 12.3 biological oxidation reduction 12.4 metabolic state postprandial absorptive state postabsorptive fasting state prolonged fasting starvation 12.5 hormonal regulation metabolism insulin glucagon 12.6 tissue specific metabolism 12.7 integrative metabolism analysis metabolism regulation body mass content chapter relevant 9 question biochemistry mcat chapter cover material following aamc content category 1d principle bioenergetic fuel molecule metabolism 5e principle chemical thermodynamic kinetic get morning ambitious plan study mcat day start big breakfast dive mcat biochemistry review chapter notice stomach growl have fun ignore little later body realize get food need energy come human body incredible system skip lunch study day produce hormone help raise level certain energy molecule bloodstream mainly glucose good thing brain rely solely glucose metabolism want think peak glucose blood come diet eat big breakfast fuel store process gluconeogenesis glycogenolysis process like formation consumption atp highly regulate chapter highlight basic principle bioenergetic include thermodynamic source energy reaction play key role move energy examine different energy state body take look intimate relationship hormone metabolism spend time examine regulation metabolism regulatory enzyme common pathway specific tissue preferentially metabolize particular macronutrient end chapter able tell food probably will choose skip lunch

matter fun have 12.1 thermodynamic bioenergetic chapter 12.1 able describe relationship $\delta g \degree$ $\delta g \degree$

explain heat measure internal energy biological predict spontaneity reaction give sign δh δs energy chemical reaction describe general chemistry work generally associate physic aware test day crossover allow draw knowledge subject use background information advantage look learn thermodynamic chapter 3 mcat physics math review chapter 7 mcat general chemistry review evident know bit datum see far obtain standard state condition 25 ° c 1 atm pressure 1 m concentration assumption work chemistry lab adjust application human body biological system consider open system exchange energy matter environment energy exchange form mechanical work move distance heat energy matter exchange food consumption elimination respiration biochemical study perform cellular subcellular level entire organism system consider closed exchange matter environment system useful simplification internal energy u. internal energy sum different interaction atom system vibration rotation linear motion store chemical energy system close change internal energy come form work heat represent mathematically law thermodynamics $\delta u = q$ w.

work thermodynamic refer change pressure volume constant live system quantity interest determine internal energy enthalpy entropy free energy bioenergetics term describe energy state biological system change free energy δg provide information chemical reaction predict chemical reaction favorable occur biological system atp play crucial role transfer energy energy release catabolic process energy require anabolic chemical reaction proceed determine degree enthalpy entropy change chemical reaction enthalpy measure overall change heat system reaction constant pressure volume enthalpy δh thermodynamic heat exchange q equal change entropy δs measure degree disorder energy dispersion system mcat test level statistical thermodynamic conceptual understanding entropy δs helpful entropy carry unit j combine mathematically temperature t quantity relate gibbs free energy equation

$\delta g = \delta h - t\delta s$ predict direction chemical reaction proceed spontaneously spontaneous reaction proceed forward direction exhibit net loss free energy negative δg contrast nonspontaneous reaction spontaneous reverse direction exhibit net gain energy positive δg free energy approach zero reaction proceed equilibrium net change concentration reactant product enthalpy entropy free energy discuss thoroughly chapter 7 mcat general chemistry review change free energy δg discuss point predict change occur concentration product reactant temperature contrast standard free energy δg ° energy change occur standard concentration 1 m pressure 1 atm temperature 25 ° c relate equation $\delta g = \delta g+ rt \ln q$ r universal gas constant t temperature q reaction quotient biochemical analysis work standard condition ph. 1 m concentration proton correspond ph 0

far acidic biochemical reaction modify standard state h+ = 107 m ph 7 additional condition δg ° give special symbol δg ° indicate standardize neutral buffer biochemistry note concentration reactant product differ 1 m adjust equation shift δg result change concentration universally away spontaneity general trend reaction product reactant negative δg reaction reactant product positive δg trend useful make quick assessment double check number test day mcat concept check 12.1 assess understanding material question 1 condition δg ° adjust

consider δg ° 2 heat measure internal energy live system 3 complete follow table relate change entropy enthalpy reaction reaction spontaneous 12.2 role atp chapter 12.2 able predict impact atp coupling energetic reaction calculate free energy change overall reaction give energetic datum relate structure atp role energy carrier human body use different energy source roughly efficiency nutrient molecule create equally example fat energy rich carbohydrate protein ketone complete combustion fat result 9 kcal energy compare 4 kcal derive carbohydrate protein ketone fat energy dense biomolecule prefer long term energy storage think difference fat carbohydrate like difference 16 gb 8 gb storage drive storage drive great capacity occupy physical space hold twice datum different energy source provide

great less caloric value end goal energy readily available form cell adenosine triphosphate atp show figure 12.1 figure 12.1 adenosine triphosphate atp atp energy carrier atp major energy currency body mid level energy carrier see table 12.1 form substrate level phosphorylation oxidative phosphorylation want atp mid level carrier high level think wallet ability change purchase type bill want abundance dollar bill similarly atp leftover free energy reaction good use carrier small free energy atp provide 30 kj physiological condition reaction require 10 kj overcome positive δg value 20 kj waste waste high high energy compound like creatine table 12.1 free energy hydrolysis key metabolic phosphate compound direct phosphorylation muscle energy turnover cell type intermediate glycolysis gluconeogenesis remember atp cell produce mitochondrial atp synthase describe chapter 10 mcat biochemistry review atp produce glycolysis indirectly gtp citric acid cycle atp consist adenosine molecule attach phosphate group generate adp pi energy input exergonic reaction electrochemical gradient atp consume hydrolysis transfer phosphate group molecule phosphate group remove adenosine diphosphate adp produce phosphate group remove adenosine monophosphate amp result single day average sized person use 90 percent body weight

single day average sized person use 90 percent body weight atp 50 gram atp available give time continuous recycling atp adp pi 1000 time day account discrepancy atp fuel energetically unfavorable reaction activate inactivate make atp good energy carrier high energy phosphate bond negative charge phosphate group experience repulsive force adp pi molecule form hydrolysis stabilize resonance atp rapidly break cell stable hydrolysis account negative value δg standard condition δg ° 55 kj ph 7 excess magnesium standard free energy change 30.5 kj adp display charge repulsion resonance stabilization hydrolysis similar δg value amp small δg ° near 9.2 kj hydrolysis couple atp hydrolysis likely encounter context couple reaction couple reaction use atp energy source example movement sodium potassium electrochemical gradient require energy harness hydrolysis atp atp cleavage transfer high energy phosphate group atp molecule generally activate inactivate target molecule phosphoryl group transfer

overall free energy reaction determine take sum free energy hess law discuss chapter 7 mcat general chemistry review apply state function include pressure density temperature volume enthalpy internal energy free energy entropy phosphoryl group transfers atp provide phosphate group reactant example phosphorylation glucose early stage glycolysis atp donate phosphate group glucose form glucose 6 phosphate information table 12.1 indicate free energy hydrolysis conceptualize transfer phosphate group water determine free energy phosphoryl group transfer biological molecule use hess law calculate difference free energy reactant product creatine phosphate h2o adp + pi atp + h2o table 12.1 creatine phosphate + adp creatine + atp mcat concept check 12.2

assess understanding material question 1 coupling atp hydrolysis alter energetic reaction 2 explain atp inefficient molecule long term energy storage 3 table 12.1 calculate free energy change synthesis atp camp inorganic phosphate note camp hydrolyze amp free energy hydrolysis atp adp approximately equal 12.3 biological oxidation reduction chapter 12.3

able explain benefit analyze half reaction biological oxidation reduction recall soluble electron carrier nadh coq pathway pair key enzyme atp synthesis biochemical pathway practice general chemistry important skill biochemistry able divide oxidation reduction reaction half reaction component determine number electron transfer example lactic acid fermentation pyruvate nadh convert lactate nad+ lactate dehydrogenase reaction break half reaction follow remember spontaneous oxidation reduction reaction negative value δg positive value e electromotive force oxidation reduction reaction discuss chapter 11 mcat general chemistry review chapter 4 mcat organic chemistry review staple general chemistry characteristic oxidoreductase enzyme moment identify oxidize reduce agent reaction catalyze lactate dehydrogenase cytoplasm molecule act high energy electron carrier soluble include nadh nadph fadh2 ubiquinone cytochrome glutathione electron carrier mitochondrial electron transport chain lead oxidative phosphorylation adp atp electron pass electron transport chain

free energy form proton motive force inner mitochondrial membrane addition soluble electron carrier membrane bind electron carrier embed inner mitochondrial membrane carrier flavin mononucleotide fmn bond complex electron transport chain act soluble electron carrier general protein prosthetic group contain iron sulfur cluster particularly suited transport electron flavoprotein contain modify vitamin b2 riboflavin nucleic acid derivative generally flavin adenine dinucleotide fad flavin mononucleotide fmn flavoprotein notable presence mitochondria chloroplast electron carrier c3h4o3 + nadh + h+ c3h6o3 + nad+ c3h4o3 + 2h+ + 2e nad+ + h+ + 2e flavoprotein involved modification b vitamin active form finally flavoprotein function coenzyme enzyme oxidation fatty acid decarboxylation pyruvate reduction glutathione deficiency riboflavin key component flavoprotein lead lack growth failure thrive eventual death experimental model human riboflavin deficiency rare occur severely malnourished individual mcat concept check 12.3 assess understanding material question 1 advantage analyze half reaction biological oxidation 2 soluble electron carrier relevant metabolic pathway 12.4 metabolic state chapter 12.4 able identify disequilibrium maintain energetic cost cell compare behavior different tissue postprandial

disequilibrium maintain energetic cost cell compare behavior different tissue postprandial postabsorptive prolonged fasting state associate metabolic state relate hormone activity key difference general chemistry biochemistry equilibrium see desirable state biochemist emphatically believe equilibrium fix state prevent store energy later use create excitable environment instead biochemist seek state homeostasis homeostasis physiological tendency relatively stable state maintain adjust expenditure energy compound body actually maintain homeostatic level different equilibrium allow store potential energy example keep sodium concentration high outside neuron inside create gradient store energy state reaction proceed equilibrium long time bear today delay equilibrium 80 year pathway operational fuel metabolism depend nutritional status organism shift storage mobilization particular fuel shift type fuel pronounced go feed state overnight fast finally prolong state starvation look fuel

metabolism regulate state remember addition big picture view discuss specific regulatory step pathway discuss previous chapter mcat biochemistry review chapter 9 glycolysis glycogenesis glycogenolysis gluconeogenesis pentose phosphate pathway chapter 10 citric acid cycle electron transport chain oxidative phosphorylation chapter 11 fatty acid cholesterol synthesis β oxidation ketogenesis ketolysis amino acid metabolism postprandial absorptive state postprandial state call absorptive feed state occur shortly eat state mark great anabolism synthesis biomolecule fuel storage catabolism breakdown biomolecule energy nutrient flood gut way hepatic portal vein liver store distribute tissue body postprandial state generally last hour eat meal eat blood glucose level rise stimulate release insulin major target tissue insulin liver muscle adipose tissue show figure 12.2 insulin promote glycogen synthesis liver muscle glycogen store fill liver convert excess glucose fatty acid triacylglycerols insulin promote triacylglycerol synthesis adipose tissue protein synthesis muscle glucose entry tissue meal energy need liver meet oxidation excess amino acid figure 12.2 metabolic profile postprandial absorptive state type cell nervous tissue red blood cell notably insensitive insulin nervous tissue derive energy oxidize glucose co2 water feed normal fasting

tissue derive energy oxidize glucose co2 water feed normal fasting state prolonged fasting situation change red blood cell use glucose anaerobically energy need regardless individual postabsorptive fasting state glucagon cortisol epinephrine norepinephrine growth hormone oppose action insulin hormone term counterregulatory hormone effect skeletal muscle adipose tissue liver opposite action insulin liver glycogen degradation release glucose blood stimulate show figure 12.3 hepatic gluconeogenesis stimulate glucagon response slow glycogenolysis glycogenolysis begin immediately beginning postabsorptive state gluconeogenesis take 12 hour hit maximum velocity figure 12.3 metabolic profile postabsorptive fasting state release amino acid skeletal muscle fatty acid adipose tissue stimulate decrease insulin increase level epinephrine carry liver amino acid fatty acid provide necessary carbon skeleton energy require prolonged fasting starvation level glucagon

epinephrine markedly elevate starvation increased level glucagon relative insulin result rapid degradation glycogen store liver liver glycogen store deplete gluconeogenic activity continue play important role maintain blood glucose level prolonged fasting 24 hour gluconeogenesis predominant source glucose body lipolysis rapid result excess acetyl coa synthesis ketone body level fatty acid ketone high blood muscle tissue utilize fatty acid major fuel source brain adapt ketone energy week fasting brain derive approximately third energy ketone one-glucose shift glucose ketone major fuel reduce quantity amino acid degrade support gluconeogenesis spare protein vital function cell mitochondrion like red blood cell continue dependent glucose energy mcat concept check 12.4 assess understanding material question 1 provide example disequilibrium maintain expense cellular 2 tissue able change fuel source period prolong 3 stage great decrease circulate concentration 12.5 hormonal regulation metabolism chapter 12.5 able describe impact key metabolic hormone insulin glucagon thyroid hormone metabolic function apply knowledge metabolic hormone give disease state recall general structure trait metabolic hormone cell act independently metabolism random process coordinate outside event like meal exertion order efficient use resource available metabolism regulate entire

meal exertion order efficient use resource available metabolism regulate entire organism regulation accomplish well hormonal mean water soluble peptide hormone like insulin able rapidly adjust metabolic process cell second messenger cascade certain fat soluble amino acid derivative hormone like thyroid hormone steroid hormone like cortisol enact long range effect exert regulatory action transcriptional level hormone level regulate feedback loop endocrine structure hypothalamic pituitary axis biomolecule act example insulin cause decrease blood glucose remove trigger continue insulin release examine specific action hormone involve regulation metabolism maintain homeostasis include insulin glucagon epinephrine glucocorticoid thyroid hormone insulin glucagon insulin peptide hormone secrete β cell pancreatic islet langerhans show figure 12.4 key player uptake storage glucose glucose

absorb peripheral tissue facilitate transport mechanism utilize glucose transporter locate cell membrane tissue require insulin effective uptake glucose adipose tissue rest skeletal muscle tissue glucose uptake affect insulin include figure 12.4 insulin light brown pancreatic β cell red blood cell erythrocyte β cell pancreas note difference type tissue tissue require insulin actively store glucose present high concentration tissue require insulin able absorb glucose glucose concentration low insulin impact metabolism different nutrient class different way carbohydrate insulin increase uptake glucose increase carbohydrate metabolism muscle fat increased glucose muscle additional fuel burn exercise store glycogen insulin increase glycogen synthesis liver increase activity glucokinase glycogen synthase decrease activity enzyme promote glycogen breakdown glycogen phosphorylase glucose-6 phosphatase primary effect insulin carbohydrate metabolism change way body process macromolecule instance insulin increase amino acid uptake muscle cell increase level protein synthesis decrease breakdown essential protein insulin exhibit significant impact metabolism fat especially liver adipocyte effect insulin metabolism fat describe glucose triacylglycerol uptake fat cell lipoprotein lipase activity clear vldl chylomicron triacylglycerol synthesis lipogenesis adipose tissue liver triacylglycerol breakdown lipolysis adipose tissue formation ketone body liver important controller insulin secretion plasma glucose threshold 100

body liver important controller insulin secretion plasma glucose threshold 100 mg dl 5.6 mm glucose insulin secretion directly proportional plasma glucose glucose promote insulin secretion enter β cell metabolize increase intracellular atp concentration increase atp lead calcium release cell promote exocytosis preform insulin intracellular vesicle insulin secretion affect signaling initiate hormone glucagon somatostatin patient type 1 diabetes mellitus incapable synthesize insulin synthesize glucagon combination increase blood sugar individual lose pancreatic function develop insulin insensitivity glucagon peptide hormone secrete α cell pancreatic islet langerhans show figure 12.5 primary target glucagon action hepatocyte glucagon act second messenger cause following effect figure 12.5 glucagon dark brown

pancreatic α cells increase liver glycogenolysis glucagon activate glycogen phosphorylase inactivate glycogen synthase increase liver gluconeogenesis glucagon promote conversion pyruvate phosphoenolpyruvate pyruvate carboxylase phosphoenolpyruvate carboxykinase pepck glucagon increase conversion fructose 1,6 bisphosphate fructose 6 phosphate increase liver ketogenesis decrease lipogenesis increase lipolysis liver glucagon activate hormone sensitive lipase liver action liver adipocyte glucagon consider major fat mobilize low plasma glucose hypoglycemia important physiological promoter glucagon secretion elevated plasma glucose hyperglycemia important inhibitor amino acid especially basic amino acid arginine lysine histidine promote secretion glucagon glucagon secrete response ingestion meal rich protein functional relationship glucagon insulin insulin associate feed absorptive metabolic state glucagon associate postabsorptive metabolic state usually oppose respect pathway energy metabolism enzyme phosphorylate glucagon generally dephosphorylate insulin enzyme phosphorylate insulin generally dephosphorylate glucagon figure 12.6 display feedback diagram interaction insulin glucagon plasma glucose concentration fat figure 12.6 relationship glucagon insulin metabolism endocrine system discuss chapter 5 mcat biology review major regulator homeostasis like glucocorticoid catecholamine mineralocorticoid sex hormone synthesize adrenal gland play minor role glucocorticoid adrenal cortex responsible stress response order getaway fight flight response glucose rapidly mobilize liver order fuel actively contract muscle cell fatty acid release adipocyte glucocorticoid especially cortisol secrete form stress include

acid release adipocyte glucocorticoid especially cortisol secrete form stress include exercise cold emotional stress cortisol show figure 12.7 steroid hormone promote mobilization energy store degradation increase delivery amino acid increase lipolysis cortisol elevate blood glucose level increase glucose availability nervous tissue mechanism cortisol inhibit glucose uptake tissue muscle lymphoid fat increase hepatic output glucose gluconeogenesis particularly amino acid second cortisol permissive function enhance activity glucagon epinephrine

catecholamine long term exposure glucocorticoid require clinically cause persistent hyperglycemia stimulate insulin actually promote fat storage adipose tissue lipolysis figure 12.7 structure cortisol enlarged adrenal gland tumor adrenal cortex show figure 12.8 adrenal cortex produce steroid hormone glucocorticoid mineralocorticoid sex hormone adrenal medulla produce catecholamine figure 12.8 adrenal gland enlarge adrenal cortex yellow adrenal medulla brown interior visible slice catecholamine secrete adrenal medulla include epinephrine norepinephrine know adrenaline noradrenaline structure hormone show figure 12.9 catecholamine increase activity liver muscle glycogen phosphorylase promote glycogenolysis increase glucose output liver glycogenolysis increase skeletal muscle muscle lack glucose-6 phosphatase glucose release skeletal muscle bloodstream instead metabolize muscle tissue catecholamine act adipose tissue increase lipolysis increase activity hormone sensitive lipase glycerol triacylglycerol breakdown minor substrate gluconeogenesis epinephrine act directly target organ like heart increase basal metabolic rate sympathetic nervous system increase metabolic function associate adrenaline rush figure 12.9 structure adrenal catecholamine epinephrine b thyroid hormone responsible day day adjustment metabolism insufficient thyroid hormone level hypothyroidism cause symptom include cold intolerance fatigue weight gain depression metabolism suffer excessive thyroid hormone level hyperthyroidism cause rapid weight loss anxiety jitteriness thyroid hormone activity largely permissive word thyroid hormone level keep constant undulate change metabolic state thyroid hormone increase basal metabolic rate evidence increase o2 consumption heat production secrete increase metabolic rate produce dose thyroxine t4 occur latency hour day triiodothyronine t3 produce rapid increase metabolic rate short duration activity subscript number refer

rapid increase metabolic rate short duration activity subscript number refer number iodine atom hormone iodine atom represent purple sphere structure show figure 12.10 t4 think precursor t3 deiodonase enzyme remove iodine molecule locate target tissue convert t4 t3

thyroid hormone primary effect lipid carbohydrate metabolism accelerate cholesterol clearance plasma increase rate glucose absorption small intestine epinephrine require thyroid hormone significant metabolic effect figure 12.10 structure thyroid hormone triiodothyronine t3 b mcat concept check 12.5 assess understanding material question 1 describe primary metabolic function following hormone thyroid hormone t3 t4 2 thyroid storm potentially lethal state extreme hyperthyroidism t3 t4 level significantly normal limit vital sign abnormality expect patient thyroid storm 12.6 tissue specific metabolism chapter 12.6 able identify prefer fuel source fuel quantity different tissue type include skeletal muscle brain recall metabolic function liver tissue evolve metabolic need meet way correspond form function major site metabolic activity body liver skeletal cardiac muscle brain adipocyte connective tissue epithelial cell major contribution consumption energy remember epithelial cell primary secretory cell involve regulation metabolism discuss body operate different nutritional condition organ specific pattern fuel utilization feed fast state summarize table 12.2 table 12.2 preferred fuel feed fasting state glucose amino fatty acid ketone fatty acid ketone glucose ketone prolonged red blood cell major role liver fuel metabolism maintain constant level blood glucose wide range condition synthesize ketone excess fatty acid oxidize meal glucose concentration portal blood elevated liver extract excess glucose use replenish glycogen store glucose remain liver convert acetyl coa fatty acid synthesis increase insulin meal stimulate glycogen synthesis fatty acid synthesis liver fatty acid convert triacylglycerol release blood low density lipoprotein vldl feed state liver derive energy oxidation excess amino acid meal prolong fast liver release glucose blood increase glucagon fasting promote glycogen degradation gluconeogenesis lactate anaerobic metabolism glycerol triacylglycerol amino

promote glycogen degradation gluconeogenesis lactate anaerobic metabolism glycerol triacylglycerol amino acid provide carbon skeleton glucose meal elevated insulin level stimulate glucose uptake adipose tissue insulin trigger fatty acid release vldl chylomicron carry triacylglycerol absorb gut lipoprotein lipase enzyme find capillary bed adipose tissue

induce insulin fatty acid release lipoprotein take adipose tissue esterify triacylglycerol storage glycerol phosphate require triacylglycerol synthesis come glucose metabolize adipocyte alternative product glycolysis insulin effectively suppress release fatty acid adipose tissue fast state decreased level insulin increase epinephrine activate hormone sensitive lipase fat cell allow fatty acid release circulation major fuel skeletal muscle glucose fatty acid enormous bulk skeletal muscle body major consumer fuel meal insulin promote glucose uptake skeletal muscle replenish glycogen store amino acid protein synthesis excess glucose amino acid oxidize energy fast state rest muscle use fatty acid derive free fatty acid circulate bloodstream ketone body fast state fast twitch muscle fiber high capacity anaerobic glycolysis quick fatigue involve primarily short term high intensity exercise slow twitch muscle fiber arm leg muscle vascularized primarily oxidative prolonged low moderate intensity exercise resist fatigue slow-twitch fiber number mitochondria increase dramatically train endurance athlete musculoskeletal system discuss chapter 11 mcat primary fuel support muscle contraction depend magnitude duration exercise major fiber involve short live source energy 2–7 second come creatine phosphate transfer phosphate group adp form atp skeletal muscle store glycogen triacylglycerols blood glucose free fatty acid short burst high intensity exercise support anaerobic glycolysis draw store muscle glycogen moderately high intensity continuous exercise oxidation glucose fatty acid important 1 3 hour continuous exercise level muscle glycogen store depleted intensity exercise decline rate support oxidation fatty acid unlike tissue body cardiac myocyte prefer fatty acid major fuel feed state ketone present prolong fasting surprisingly cardiac myocyte closely parallel skeletal muscle extend period exercise patient cardiac

myocyte closely parallel skeletal muscle extend period exercise patient cardiac hypertrophy thickening heart muscle situation reverse extent fail heart glucose oxidation increase β oxidation fall brain represent 2 percent total body weight obtain 15 percent cardiac output use 20 percent total o2 consume 25 percent total glucose brain primary fuel blood glucose level

tightly regulate maintain sufficient glucose supply brain sufficient concentration study normal function depend continuous glucose supply bloodstream hypoglycemic condition < 70 mg dl hypothalamic center brain sense fall blood glucose level release glucagon epinephrine trigger fatty acid cross blood brain barrier energy source meal brain rely blood glucose supply hepatic glycogenolysis gluconeogenesis prolong fasting brain gain capacity use ketone body energy ketone body supply approximately third fuel remainder glucose biochemistry guide example expert diet high fat low carbohydrate sufficient protein automatically shift energy production body primarily dependent glucose primarily drive ketone body dietary approach term ketogenic diet develop nearly 100 year ago metabolic therapy mimic metabolic change occur fasting observe halt food intake seizure stop epileptic patient metabolic dysfunction increasingly appreciate fundamental pathology disease state include neurodegenerative disease brain cancer treatment reversal type ii diabetes metabolic syndrome furthermore implement ketogenic diet show improvement disease date confirmation fundamental metabolic mechanism(s explain diverse beneficial effect see ketogenic diet kd = high fat low carb kd know help number disease improve kd know kd work help possible avenue explore differential cellular energy production depend metabolic coenzyme nicotinamide adenine dinucleotide nad+ marker mitochondrial cellular health furthermore nad+ activate downstream signal pathway sirtuin enzyme associate major benefit longevity reduce inflammation increase nad+ covet therapeutic endpoint diagram 1 outline usage nad+ metabolism glucose ketone body β hydroxybutyrate depend role nad+ nad+ good candidate overall broad acetoacetate ketone body glucose use 4 nad+ 2 acetyl- use 1 nad+ adapt elamin m. ruskin d. n.

acetyl- use 1 nad+ adapt elamin m. ruskin d. n. masino s. a. sacchetti p. 2017

ketone base metabolic therapy increase nad+ primary mechanism frontiers molecular give information passage researcher assay mice feed ketogenic diet versus normal chow

nad+/nadh ratio ketogenic mouse compare normal mouse researcher likely interested measure nad+/nadh ratio specifically brain question ask compare nad+/nadh ratio kd mouse mouse feed normal diet mean combine content background information passage generate answer know normal diet tend high carbohydrate ketogenic diet high ketone body diagram 1 demonstrate metabolism glucose metabolism β hydroxybutyrate produce acetyl coa molecule metabolism glucose convert nad+ molecule nadh metabolism β hydroxybutyrate convert nad+ molecule nadh difference generate high nad+/nadh ratio mouse subsist kd diet nadh level relatively constant production source body nad+ availability increase answer second question superficially answer paragraph disease mention focus brain epilepsy neurodegenerative disease brain cancer dig little deeply content background know brain use glucose ketone body source energy energy storage molecule like glycogen adipose cell present brain early day ketogenic diet tissue alternative energy source fatty acid brain shift utilize high proportion ketone body increase nad+/nadh ratio potential associate benefit occur brain soon great extent body passage state nad+ activate pathway involve sirtuin enzyme reduce inflammation fight age process physiological change indirectly explain ketogenic diet potentially help brain base disease short mouse ketogenic diet likely high nad+/nadh ratio compare mouse normal diet nad+ level brain likely susceptible diet change brain rely plasma glucose ketone body mcat concept check 12.6 assess understanding material question 1 prefer fuel cell feed state exception prefer fuel preferred fuel exception preferred fuel 2 organ consume great glucose relative percentage 3 describe major metabolic function liver 12.7 integrative metabolism chapter 12.7 able predict change respiratory quotient change activity explain role leptin ghrelin orexin regulate body mass apply knowledge measurement method metabolism analytical approach lab setting mcat expect know level healthy indicator easily pose datum interpretation

mcat expect know level healthy indicator easily pose datum interpretation question relate analysis metabolism method analyze metabolic control organism human level glucose thyroid

hormone thyroid stimulate hormone insulin glucagon oxygen carbon dioxide measure blood hormone substrate predictable effect metabolism indicator metabolic function indicator disorder case blood glucose thyroid stimulate hormone respirometry allow accurate measurement respiratory quotient differ depend fuel organism respiratory quotient rq measure experimentally rq = co2 produce complete combustion give fuel source respiratory quotient carbohydrate 1.0 respiratory quotient lipid 0.7 rest individual respiratory quotient generally 0.8 indicate fat glucose consume respiratory quotient change condition high stress starvation exercise predict action different hormone calorimeter measure basal metabolic rate bmr base heat exchange environment human calorimetry make use large insulated chamber specialized heat sink determine energy expenditure isolationist nature testing expense create calorimetry chamber measure bmr prefer previous experimentation bmr estimate base age weight height phenotypical sex regulation body mass discuss metabolism small scale metabolic control involve maintain body mass weight loss gain body mass determine factor include water carbohydrate protein lipid nucleic acid contribute significantly maintenance overall mass carbohydrate protein tend stable time modify slightly period prolong starvation significant muscle building activity water quickly adjust endocrine system kidney factor discussion obesity weight regulation water primary source frequent minor weight fluctuation subject rapid adjustment lipid store adipocyte primary factor gradual change body mass time individual maintain body weight consume energy spend average day energy consume great energy expenditure significant period time fat store begin accumulate opposite see energy deficit exist calorie consume calorie burn decrease weight observe individual increase mass basal metabolic rate energy require sedentary day increase caloric excess cause increase body mass equilibrium reach new basal metabolic rate exist intake weight loss reverse trend see effect threshold differ individual small adjustment intake prolonged period time partially fully compensate

individual small adjustment intake prolonged period time partially fully compensate change

energy expenditure similarly small increase decrease activity level compensate change hunger deliberate alteration body mass require alteration threshold level large negative energy balance positive energy balance word large change lose weight gain motivation psychological concept discuss chapter 5 mcat behavioral sciences review link physiological drive signal pathway hypothalamus produce orexin respond leptin ghrelin responsible regulate hunger thirst libido diet energy intake exercise energy expenditure genetic socioeconomic status geography play key role weight control describe early hormonal control thyroid hormone cortisol epinephrine glucagon insulin critical integration metabolism addition hormone control hunger satiety include ghrelin orexin leptin wonder feel hungry walk favorite restaurant suddenly ravenous job ghrelin orexin ghrelin secrete stomach response signal impending meal sight sound taste especially smell act signal release ghrelin increase appetite stimulate secretion orexin orexin increase appetite involve alertness sleep wake cycle hypoglycemia trigger orexin release leptin hormone secrete fat cell decrease appetite suppress orexin production genetic variation leptin molecule receptor implicate obesity knockout mouse unable produce leptin show

left figure 12.11 messenger receptor target current research question body mass modification mcat come diet exercise figure 12.11 leptin knockout mouse left compare normal mouse right body mass measure track body mass index bmi give bmi = mass mass measure kilogram height measure meter normal bmi consider 18.5 25 value low consider underweight bmi 25 30 consider overweight bmi 30 consider obese mcat concept check 12.7 assess understanding material question 1 respiratory quotient expect change person transition rest brief exercise 2 true false body mass predict leptin receptor phenotype caloric intake 3 true false easy gain weight lose weight 4 design study assess metabolism measurement method choose defend answer chapter review principle thermodynamic thermochemistry introduce general chemistry physics application biological system look specific energy molecule human metabolism source energy key reaction type atp synthesis hydrolysis compare different

energy state impact overall metabolism tissue specific metabolism point decent idea determine energy source experimental datum able prediction change metabolism vary condition congratulation chapter mcat biochemistry review ready tackle challenge face test day continue practice try skip lunch review content test knowledge critical thinking skill complete test like passage set online resource thermodynamic bioenergetics biological system consider open matter energy exchange closed energy exchange determination base examination entire organism isolate process change enthalpy closed biological system equal change internal energy equal heat exchange work perform closed biological system pressure volume remain constant entropy measure energy dispersion system physiological concentration usually standard free energy calculation

adjust ph δg ° temperature 37 ° c = 98.6 ° f = 310 k concentration role atp atp mid level energy molecule atp contain high energy phosphate bond stabilize hydrolysis resonance ionization loss charge repulsion atp provide energy hydrolysis coupling energetically unfavorable reaction atp participate phosphoryl group transfer biological oxidation reduction biological oxidation reduction reaction break component half reaction half reaction provide useful information stoichiometry oxidation reduction reaction involve electron carrier transport high energy electron electron carrier soluble membrane bind flavoprotein subclass electron carrier derive riboflavin vitamin b2 equilibrium undesirable state biochemical reaction organism need harness free energy survive postprandial feed absorptive state insulin secretion high anabolic metabolism prevail postabsorptive fast state insulin secretion decrease glucagon catecholamine secretion increase state observe short term fasting overnight transition catabolic metabolism prolonged fasting starvation dramatically increase glucagon tissue rely fatty acid maximum 2 brain energy derive ketone hormonal regulation metabolism insulin glucagon oppose activity aspect insulin cause decrease blood glucose level increase insulin increase rate anabolic metabolism insulin secretion pancreatic β cell regulate blood glucose glucagon increase blood glucose level promote gluconeogenesis glycogenolysis liver glucagon

secretion pancreatic α cell stimulate low glucose high amino acid level glucocorticoid increase blood glucose response stress mobilize fat store inhibit glucose uptake glucocorticoid increase impact glucagon catecholamine promote glycogenolysis increase basal metabolic rate sympathetic nervous system activity thyroid hormone modulate impact metabolic hormone direct impact basal metabolic rate t3 potent t4 short half life available low concentration blood t4 convert t3 tissue liver metabolically diverse tissue hepatocyte responsible maintenance blood glucose level glycogenolysis gluconeogenesis response pancreatic hormone stimulation liver participate processing lipid cholesterol bile urea toxin adipose tissue store lipid influence insulin release influence epinephrine skeletal muscle metabolism differ base current activity level fiber type rest muscle conserve carbohydrate glycogen store use free fatty acid bloodstream

muscle conserve carbohydrate glycogen store use free fatty acid bloodstream active muscle use anaerobic metabolism oxidative phosphorylation glucose direct phosphorylation creatine phosphate fatty acid oxidation depend fiber type cardiac muscle use fatty acid oxidation feed brain nervous tissue consume glucose metabolic state prolong fast 2 brain fuel come ketone body metabolic rate measure calorimetry respirometry consumption tracking measurement blood concentration substrate hormone composition fuel actively consume body estimate respiratory quotient rq body mass regulation multifactorial consumption activity modifiable factor hormone leptin ghrelin orexin receptor play role body mass long term change body mass result change lipid change consumption activity surpass threshold cause weight change threshold low weight gain body mass measure track body mass answer concept check 1 δg ° adjust ph environment fix 7 temperature concentration reagent fix value standard condition adjust 1 m. 2

cellular environment relatively fix volume pressure eliminate work calculation internal energy $\delta u = q \; w$ $w = 0$ $\delta u = q$. spontaneous high temperature spontaneous low temperature 1 atp

hydrolysis yield 30 kj energy harness drive reaction forward allow nonspontaneous reaction occur increase rate spontaneous 2 atp intermediate energy storage molecule energetically dense high energy bond atp presence significant charge inefficient molecule pack small space long- term storage molecule

characterize energy density stable nonrepulsive bond primarily see lipid 3 camp + h2o amp amp + pi adp + h2o adp + pi atp + h2o camp + 2pi atp + h2o 1 analyze half reaction help determine number electron transfer type analysis facilitate balancing equation determination electrochemical potential reduction potential provide glycolysis fermentation citric acid cycle electron transport chain pentose phosphate pathway lipid biosynthesis bleach formation oxidative electron transport chain electron transport chain 1 excitable cell maintain state disequilibrium classic example include muscle tissue neuron addition cell volume membrane transport regulate action sodium potassium pump maintain stable disequilibrium state 2 cell rely solely anaerobic respiration adaptable different energy source red blood cell flexible period prolonged starvation stay reliant glucose 3 postabsorptive state great decrease insulin level concentration counterregulatory hormone glucagon cortisol epinephrine norepinephrine growth hormone begin rise 1 insulin promote glucose uptake adipose tissue muscle glucose utilization muscle cell macromolecule storage glycogenesis lipogenesis glucagon increase blood glucose level promote glycogenolysis gluconeogenesis lipolysis ketogenesis cortisol increase lipolysis amino acid mobilization decrease glucose uptake certain tissue enhance activity counterregulatory hormone catecholamine increase glycogenolysis muscle liver lipolysis adipose tissue thyroid hormone increase basic metabolic rate potentiate activity 2 thyroid storm present hyperthermia high temperature tachycardia fast heart rate hypertension high blood pressure tachypnea high respiratory rate 1 prefer fuel cell feed state glucose exception cardiac muscle prefer fatty acid 2 brain consume great glucose relative percentage body mass 3 liver responsible maintain steady state concentration glucose blood glucose uptake storage glycogenolysis gluconeogenesis liver participate cholesterol fat

metabolism urea cycle bile synthesis detoxification foreign substance 1 person begin exercise proportion energy derive glucose increase transition exclusively carbohydrate metabolism cause respiratory quotient approach 1 2 false energy expenditure genetic socioeconomic status geography hormone play role body mass regulation 3 true

status geography hormone play role body mass regulation 3 true threshold low uncompensated weight gain uncompensated weight loss easy surpass threshold gain weight lose weight 4 method describe text include chemical analysis objective quantify specific metabolic substrate product enzyme calorimetry accurate basal metabolic rate expensive respirometry provide basic information fuel source caloric analysis constant weight food exercise log invasive answer defend science mastery assessment closed biological system enthalpy heat internal energy directly relate change pressure volume pressure volume fix work c correct solve question use equation δg = δg ° + rt lnq.

q reaction quotient b][c]2 reaction plug variable r t positive natural log value great 0 know δg negative

low original value negative δg correspond spontaneous reaction hydrolysis atp energetically favorable repulsive negative charge relieve hydrolyze new compound stabilize resonance true atp adp answer choice tempting atp hydrolysis rely ph protonate atp molecule contain negative charge experience repulsive force b energy release mole creatine phosphate hydrolysis sufficient phosphorylate mole adp accord table 12.1 creatine phosphate donate phosphate group molecule adp mole creatine phosphate phosphorylate mole adp d removal phosphate group atp yield amp cyclic amp reduction gain electron eliminate b oxidation reaction nadph c product pentose phosphate pathway ubiquinone d transfer electron course electron transport chain final electron acceptor title belong oxygen order transport electron electron carrier like flavoprotein able exist stable oxidize state stable reduce form atp

dephosphorylate generally oxidize reduce regulatory enzyme phosphorylate dephosphorylate generally oxidize reduce δg= 0 + rt ln 10×103][10×103 = rt ln 104 = 4rt ln 10 skip single meal prolong fast increase hormone promote gluconeogenesis glycogenolysis indicate absorptive phase end feed state liver run glucose amino acid brain adipose tissue run glucose cardiac muscle run fatty acid d correctly pair tissue energy source hormonal control coordinate regulate metabolic activity entire organism allosteric control local systemic modification enzyme glycogen metabolism insulin glucagon phosphorylation dephosphorylation modify covalent bond adipose tissue rest skeletal muscle require insulin glucose uptake active skeletal muscle use creatine phosphate glycogen regulate epinephrine amp maintain energy requirement short term glucocorticoid exposure cause release glucose hydrolysis fat adipocyte glucose metabolism cause increase glucose level promote fat storage net result release glucose liver convert lipid adipose tissue insulin stimulation brain use aerobic metabolism glucose exclusively sensitive oxygen level extremely high oxygen requirement brain 20 body oxygen content relative size 2 total body weight imply brain sensitive organ oxygen respiratory quotient rq give indication primary fuel utilize rq 0.7 indicate lipid metabolism 0.8–0.9 indicate

primary fuel utilize rq 0.7 indicate lipid metabolism 0.8–0.9 indicate amino acid metabolism d 1.0 indicate carbohydrate metabolism nucleic acid contribute significantly respiratory quotient leptin act decrease appetite inhibit production orexin orexin associate alertness decrease level orexin body expect cause drowsiness information answer apparent body tend maintain energy balance consumption decrease energy expenditure expect decrease atp store turn 1,000 time day 10,000 prolonged fast characterize increase glucagon accomplish cellular activity phosphorylate dephosphorylate metabolic enzyme glycogen storage b halt require enzyme regulation glucagon occur later postabsorptive state protein breakdown c begin eventually starvation ketone body brain main energy source consult online resource additional practice equation remember 12.1 gibbs free energy δg = δh tδs 12.2 modified

standard state δg = δg ° + rt ln(q 12.3 respiratory quotient rq = co2 produce 12.4 body mass index bmi = mass biochemistry chapter 9 carbohydrate metabolism biochemistry chapter 10 carbohydrate metabolism ii biochemistry chapter 11 lipid amino acid metabolism biology chapter 5 endocrine system general chemistry chapter 11 physics math chapter 3 absolute configuration nomenclature system three- dimensional arrangement atom isomer common system d l r)/(s acetal carbon atom bond alkyl group or group acetyl coa important metabolic intermediate link glycolysis β oxidation citric acid cycle convert ketone body activation conversion biomolecule active usable form activation trna amino acid activation fatty acid coa form fatty acyl coa.

activation energy energy require change state molecule group molecule transition state energy require reaction active site catalytically active portion enzyme active transport movement molecule concentration gradient energy investment primary active transport use atp secondary active transport use favorable transport gradient activity measure catalytic activity enzyme call velocity rate measure vmax analyze activity analysis determination enzymatic activity isolate protein interaction substrate usually colorimetric nature adenosine triphosphate atp)–the primary energy molecule body release energy break bond terminal phosphate form adp inorganic phosphate adipocyte cell specialize fat storage aerobic respiration collection energy produce metabolic process require oxygen include citric acid cycle electron transport chain oxidative phosphorylation agglutination clumping particle cause binding antibody aldose sugar high order functional group aldehyde categorize number carbon triose tetrose pentose hexose allosteric enzyme enzyme experience change conformation result interaction site active site call allosteric site conformational change increase decrease α helix element secondary structure mark clockwise coiling amino acid central axis alternative splicing production multiple different related mrna molecule single primary transcript hnrna amino acid dipolar compound contain amino group nh2 carboxyl group cooh amphipathic have hydrophilic hydrophobic region amphoteric ability act acid

base amplification increase transcription translation gene response hormone growth factor intracellular condition anabolism series metabolic process result consumption energy synthesis molecule anaerobic respiration series energy produce metabolic process require oxygen include glycolysis fermentation anomer subtype epimer chiral carbon inverted configuration carbonyl carbon anomeric carbon antibody specialized protein molecule produce lymphocyte interaction antigen antibody consist heavy light chain constant variable region antibody call immunoglobulin mediator immune response anticodon nucleotide sequence trna molecule pair correspond mrna codon translation antigen region molecule interact antibody case antigen protein apoenzyme enzyme devoid prosthetic group coenzyme cofactor necessary normal activity apolipoprotein protein molecule responsible interaction lipoprotein cell transfer lipid molecule lipoprotein call apoprotein aromaticity ability molecule delocalize π electron conjugate ring

call apoprotein aromaticity ability molecule delocalize π electron conjugate ring create exceptional stability basal metabolic rate energy consume give period time rest organism β oxidation catabolism fatty acid acetyl coa.

β pleated sheet element secondary structure mark peptide chain lie alongside form row strand bile mixture salt pigment cholesterol act emulsify lipid small intestine bind protein protein transport sequester molecule bind bind protein affinity curve molecule interest bioenergetic biochemistry energy involve bond interaction biosignaling process cell receive act message bradford protein assay colorimetric method determine concentration protein isolate protein standard rely transition absorption bound unbound coomassie brilliant cahn ingold prelog system system isomer e vs. z r vs. s base atomic number substituent orientation dimensional space calorimeter device measure heat change course carboxylation addition carboxylic acid group molecule carotenoid group molecule tetraterpene catabolism series metabolic process result release energy breakdown molecule catalyst substance enzyme

increase rate reaction lower activation energy catalyst consume catalyze catalytic efficiency ratio kcat km catalytic efficiency directly relate efficiency enzyme function catecholamine mediator sympathetic nervous system adrenal gland include epinephrine norepinephrine cell adhesion molecule specialized structural protein involve cell cell junction transient cellular interaction common cell adhesion molecule cadherin integrin selectin cellulose homopolysaccharide glucose main structural component plant cellulose indigestible human central dogma molecular biology major step transfer genetic information transcription dna rna translation rna protein centrifugation process separate component basis density resistance flow spin sample high speed high density material form solid pellet low density material remain supernatant liquid portion centromere area chromosome sister chromatid join point attachment spindle fiber mitosis ceramide simple sphingolipid single hydrogen head cerebroside sphingolipid contain carbohydrate head group chaperone protein assist protein folding posttranslational chargaff rule dna source 1:1 ratio pyrimidine purine basis adenine equal thymine cytosine equal chemiosmotic coupling utilization proton motive force generate electron transport chain drive atp synthesis oxidative chiral describe molecule nonsuperimposable mirror image chiral center carbon atom bond different substituent chiral compound chiral center cholesterol molecule contain link aromatic ring cholesterol provide fluidity stability cell

molecule contain link aromatic ring cholesterol provide fluidity stability cell membrane precursor steroid hormone chromatid chromosomal strand form dna replication s phase cell cycle hold centromere identical pair chromatid refer sister chromatid chromatography process separate molecule interaction stationary phase mobile phase chromatographic method rely chemical similarity molecule exception size- chromosome filamentous body find nucleus eukaryotic cell nucleoid region prokaryotic cell compose dna citric acid cycle metabolic pathway produce gtp energy carrier carbon dioxide burn acetyl coa call krebs cycle tricarboxylic acid tca cycle share intermediate metabolic process include fatty acid cholesterol

synthesis gluconeogenesis amino acid metabolism closed system system capable exchange energy matter coding strand strand dna template transcription call sense strand codon nucleotide sequence mrna molecule pair appropriate trna anticodon translation coenzyme organic molecule help enzyme carry cofactor inorganic molecule ion help enzyme carry colligative property

physical property change accord concentration solute identity colligative property include vapor pressure depression boiling point elevation freezing point depression osmotic pressure colloid mixture compose large molecule substance suspend substance competitive inhibition decrease enzyme activity result interaction inhibitor active site enzyme competitive inhibition overcome addition excess substrate condensation reaction reaction removal water molecule accompany formation bond call dehydration conformational coupling accept mechanism atp synthase activity proton cause conformational change release atp atp synthase conjugate protein protein derive function covalently attach molecule prosthetic group cooperativity interaction subunit multi subunit protein binding substrate subunit increase affinity subunit substrate unbind substrate unit decrease affinity subunit substrate corepressor species bind repressor allow complex bind operator region operon stop transcription cristae infolding inner mitochondrial membrane increase surface area available electron transport chain complex c terminus free carboxyl end polypeptide dalton da)–molar mass unit protein molecular weight amino acid weigh approximately 100 da 100 g degeneracy characteristic genetic code codon specify single amino acid denaturation loss secondary tertiary quaternary structure protein lead loss function deoxyribonucleic acid dna)–a nucleic acid find exclusively nucleus code gene necessary life transcribe mrna read 5′ 3′.

desmosome cell cell junction anchor layer epithelial cell diastereomer compound chiral carbon inverted configuration differ physical property diprotic contain hydrogen acid able pick disulfide bond covalent interaction sh group cysteine residue element tertiary quaternary

structure edman degradation stepwise process determine amino acid sequence isolate protein electrochemical gradient uneven separation ion biological membrane result potential energy electrophoresi process separate compound basis size charge porous gel electric field protein electrophoresis generally use polyacrylamide nucleic acid electrophoresi generally elongation step cycle repeat amino acid add protein translation emulsification mixing normally immiscible liquid enantiomer compound nonsuperimposable mirror image physical chemical property rotation plane- polarize light interaction chiral environment endocytosis transport molecule cell invagination cell membrane formation vesicle phagocytosis endocytosis solid pinocytosis endocytosis liquid endothermic reaction reaction require heat positive δh enhancer collection response element allow control gene expression multiple signal enthalpy overall change heat system reaction entropy disorder system system entropy increase enzyme biological molecule catalytic activity include protein rna molecule enzyme specify target enzyme link receptor transmembrane protein display catalytic activity response ligand binding epimer subtype diastereomer differ absolute configuration exactly chiral carbon euchromatin loose dense collection dna appear light color microscope transcriptionally active exocytosis transport molecule cell release transport vesicle vesicle fuse cell membrane secretion exon portion hnrna splice exon form mature exothermic reaction reaction release heat negative δh facilitate diffusion movement solute molecule cell membrane concentration gradient transport protein channel ion large polar molecule fatty acid monocarboxylic acid additional substituent fatty acid saturate single bond unsaturated contain double bond natural fatty acid cis conformation feedback inhibition inhibition enzyme product product metabolic pathway maintain homeostasis feed forward activation stimulation enzyme intermediate precede enzyme metabolic pathway fermentation conversion pyruvate ethanol carbon dioxide yeast lactic acid animal cell require oxygen fibrous protein protein compose long sheet strand fischer projection method draw organic molecule horizontal

long sheet strand fischer projection method draw organic molecule horizontal line come page

wedge vertical line go page dash flavin adenine dinucleotide fad)–an energy carrier accept electron feed electron transport chain flavoprotein protein bond fad fluid mosaic model representation plasma membrane dynamic phospholipid bilayer interaction cholesterol protein frameshift mutation change dna reading frame codon mrna shift insertion deletion nucleotide multiple fructose monosaccharide find predominantly fruit honey furanose membered ring sugar g protein couple receptor special class membrane receptor associate gtp bind protein activation g protein couple receptor involve dissociation gtp hydrolysis galactose monosaccharide find predominantly dairy ganglioside sphingolipid head group contain oligosaccharide n acetylneuraminic acid nana gap junction cell cell junction allow passage small molecule adjacent cell gene unit dna encode specific protein rna molecule globoside sphingolipid multiple carbohydrate group attach globular protein protein roughly spherical structure glucagon mediator glucose release secrete pancreatic α- cell rise response low blood glucose glucogenic describe amino acid convert intermediate feed gluconeogenesis leucine lysine gluconeogenesis production glucose biomolecule carry liver kidney glucose primary monosaccharide fuel cell body formula c6h12o6 glycerol carbon alcohol serve backbone glycerophospholipid sphingolipid triacylglycerol glycerophospholipid refer phosphoglyceride lipid contain glycerol backbone phosphate group bond ester linkage fatty acid glycogen branched polymer glucose represent storage form glycogenesis synthesis glycogen granule glycogenolysis breakdown glycogen granule glycolysis breakdown glucose molecule pyruvate formation energy carrier nadh occur aerobic glycosidic linkage bond anomeric carbon sugar glycosphingolipid sphingolipid head group compose sugar include cerebroside globoside glycosylation addition sugar molecule haworth projection method depict cyclic sugar planar ring oh group stick plane sugar hemiacetal carbon atom bond alkyl group or group oh group hydrogen hemiketal carbon atom bond alkyl group or group oh group hess law relationship state total change state function regardless path take number step equal difference initial final value state heterochromatin tightly coil dna appear

difference initial final value state heterochromatin tightly coil dna appear dark colored microscope transcriptionally inactive heterogeneous nuclear rna hnrna)–the precursor process mrna convert mrna add poly tail 5′ cap splice hill coefficient quantitative measure cooperative binding effect histone structural protein dna coil eukaryotic cell histone association dna alter acetylation histone protein methylation dna strand holoenzyme enzyme bind require prosthetic group coenzyme cofactor homeostasis stable internal state organism homeostasis synonymous equilibrium homogenization process break cell membrane create uniform mixture cell component separation accomplish chemically physically hormone sensitive lipase enzyme responsible mobilization fatty acid adipocyte respond decrease insulin level hückel rule condition aromaticity state compound $4n + 2$ n integer π electron hybridization research technique involve dna joining complementary base pair sequence hydrolase enzyme catalyze cleavage molecule addition water hydrolysis break covalent bond assistance water hydrophilic attract water describe polar charge compound participate hydrogen bonding hydrophobic repel water describe nonpolar uncharged compound usually lipid certain r group amino acid hypertonic solution great concentration compare hypotonic solution low concentration compare induced fit model well support prominent theory enzyme specificity state enzyme substrate experience change conformation bind increase complementarity usually contrast lock key theory inducible system operon require inducer remove repressor protein operator site begin transcription relevant gene initiation start translation small subunit ribosome bind mrna molecule trna methionine n formylmethionine bind start codon aug insulin primary mediator carbohydrate metabolism secrete pancreatic β cell rise response high blood glucose internal energy sum different interaction atom system vibration rotation linear motion store chemical energy contribute intron portion hnrna splice form mrna remain nucleus processing ion channel protein form pore membrane embed irreversible inhibition decrease enzyme activity result interaction inhibitor bind permanently active site allosteric site laboratory setting irreversible inhibitor call suicide substrate isoelectric focusing specialized method separate protein isoelectric point electrophoresi gel

modify possess ph

method separate protein isoelectric point electrophoresi gel modify possess ph isoelectric point pi)–the ph amino acid predominantly isoform slightly different version protein specific isomerase enzyme catalyze constitutional stereochemical rearrangement molecule isotonic solution concentration compare jacob monod model description structure function operon prokaryote operon structural gene operator site promoter site regulator gene kcat rate catalytic conversion substrate value give number substrate molecule turn enzyme molecule second ketal carbon atom bond alkyl group or group ketogenesis synthesis ketone body metabolic product β oxidation amino acid metabolism occur condition ketogenic describe amino acid convert ketone body ketolysis breakdown ketone body use acetyl coa.

ketose sugar high order functional group ketone categorize number carbon triose tetrose pentose hexose kinase specific transferase protein catalyze movement phosphate group generally atp molecule interest km concentration substrate enzyme run half maximal velocity measure enzyme affinity high km low lactose disaccharide compose glucose galactose lariat lasso shaped structure form removal intron ligase enzyme catalyze synthesis large polymeric biomolecule commonly nucleic acid lipid molecule insoluble water soluble nonpolar organic lipoprotein transport mechanism lipid circulatory lymphatic system include chylomicron vldl transport triacylglycerol hdl idl ldl transport cholesterol lock key theory prominent theory enzyme specificity state enzyme substrate static complementary state supported induce fit model lyase enzyme catalyze cleavage synthesis molecule addition loss water maltose disaccharide compose glucose molecule matrix content inner mitochondrial membrane include soluble enzyme electron transport chain mitochondrial dna membrane cell biology double layer phospholipid protein form boundary cell organelle cell membrane receptor transmembrane protein molecule act enzymatically ion channel participate signal transduction messenger rna mrna)–the strand rna form transcription dna transfer cytoplasm

translate micelle collection fatty acid phospholipid molecule orient minimize free energy hydrophobic hydrophilic interaction generally sphere hydrophobic core hydrophilic exterior migration velocity velocity compound move gel missense mutation mutation amino acid substitute different amino acid mitochondrion organelle responsible aerobic respiration generate atp breakdown product biomolecule energy carrier reduce metabolic pathway contain inner outer mix inhibition decrease enzyme activity result interaction inhibitor allosteric site mix inhibitor bind free enzyme substrate bind enzyme different affinity overcome addition substrate impact km vmax molten globule intermediate state folding protein monocistronic code pattern eukaryote mrna molecule code protein monoprotic contain hydrogen acid able pick hydrogen base monosaccharide single sugar monomer common example glucose galactose fructose motor protein protein involve cell motility interaction structural protein motor protein atpase activity include myosin kinesin dynein mutarotation rapid interconversion different anomer negative control prokaryotic genetic

dynein mutarotation rapid interconversion different anomer negative control prokaryotic genetic operon require binding protein decrease transcription nicotinamide adenine dinucleotide nad+)–an energy carrier accept electron feed electron transport chain nicotinamide adenine dinucleotide phosphate nadp+)–an electron donor produce pentose phosphate pathway involve biosynthesis oxidative stress immune function nmr spectroscopy method determine molecular structure use relative position carbon hydrogen determine relative shielding spin electron observe molecule expose noncompetitive inhibition decrease enzyme activity result interaction inhibitor allosteric site noncompetitive inhibitor bind equally free enzyme substrate bind enzyme overcome addition substrate nonsense mutation mutation code codon change stop codon call truncation mutation nontemplate synthesis method de novo synthesis lipid carbohydrate rely gene expression enzyme specificity genetic template dna rna n terminus free amino end polypeptide nuclear pore hole nuclear envelope permit entrance exit substrate nucleoside molecule compose pentose bind nitrogenous base

c-1′ position sugar nucleotide molecule compose phosphate group bind c-5′ position nucleoside nucleotide excision repair method remove thymine dimer dna strand cut patch process okazaki fragment small strand form lag strand dna synthesis unidirectional nature dna synthesis oncogene mutate gene cause cancer open system system capable exchange matter energy operator site component operon prokaryote nontranscribable region dna capable bind repressor operon prokaryote cluster gene transcribe single mrna regulate repressor inducer depend system opsonization marking pathogen antibody later origin replication site dna unwind allow replication new dna generation new dna direction occur origin replication result replication fork osmosis simple diffusion water osmotic pressure pressure necessary counteract effect osmotic gradient pure water colligative property oxidative phosphorylation transfer phosphate group generally atp power gradient form oxidation reduction reaction occur mitochondria oxidoreductase enzyme catalyze oxidation reduction reaction electron carrier cofactor pancreatic lipase primary enzyme involve digestion lipid pancreatic protease enzyme primarily responsible digestion protein small intestine include trypsin chymotrypsin carboxypeptidases b secrete paracellular transport transport material interstitial space

chymotrypsin carboxypeptidases b secrete paracellular transport transport material interstitial space interaction cytoplasm cell membrane passive transport movement molecule concentration gradient energy investment include simple facilitate diffusion osmosis pentose phosphate pathway metabolic process produce nadph ribose 5 phosphate nucleotide synthesis peptide molecule compose amino acid residue subdivide dipeptide amino acid tripeptide 3 oligopeptide 20 polypeptide 20 peptide bond amide bond carboxyl group amino acid amino group amino acid phospholipid lipid contain phosphate alcohol glycerol sphingosine join hydrophobic fatty acid tail phosphorylation placement phosphate group compound pka ph half molecule give acid deprotonate ha = a point mutation substitution nucleotide dna polarity uneven sharing electron molecule create slightly positive slightly

negative polycistronic code pattern prokaryote mrna code multiple protein polymerase chain reaction automate process produce copy dna sequence use bacteria amplification polyprotic contain hydrogen acid able pick hydrogen base polysaccharide long chain monosaccharide link glycosidic bond divide homopolysaccharide type monosaccharide heteropolysaccharide type monosaccharide positive control prokaryotic genetic operon require binding protein increase transcription postprandial state state shortly eat characterize increase anabolism fuel storage refer absorptive feed prenylation addition lipid group molecule primary structure linear sequence amino acid polypeptide promoter region portion dna upstream gene contain tata box site rna polymerase ii bind start prostaglandin group 20 carbon molecule unsaturated carboxylic acid derive arachidonic acid act paracrine autocrine prosthetic group cofactor coenzyme covalently bond protein permit function protein lipid carbohydrate nucleic acid prosthetic group refer lipoprotein glycoprotein protein molecule chain amino acid join proteinogenic ability certain 20 amino acid integrate proton motive force proton concentration gradient inner mitochondrial membrane create electron transport chain oxidative phosphorylation purine nitrogen contain base find nucleotide possess two- ring structure purine adenine guanine pyranose membered ring sugar pyrimidine nitrogen contain base find nucleotide possess ring structure pyrimidine cytosine thymine uracil pyruvate important metabolic intermediate feed citric acid cycle

thymine uracil pyruvate important metabolic intermediate feed citric acid cycle fermentation gluconeogenesis q cycle shuttling electron ubiquinol ubiquinone inner mitochondrial membrane complex iii function quaternary structure interaction different subunit multi subunit protein stabilize r group interaction reaction coupling tendency unfavorable biological reaction occur concurrently favorable reaction catalyze single reading frame translation nucleotide codon recombinant dna dna form combine genetic material multiple source laboratory reduce sugar sugar reduce compound detect tollens benedict reagent regulator gene operon gene code repressor protein release factor protein bind stop codon termination

renaturation regaining correct secondary tertiary quaternary structure denaturation protein replisome set specialized protein assist dna polymerase repressible system operon require repressor bind corepressor bind operator site stop transcription repressor enzyme inhibitor enzyme action operon species bind operator region stop transcription relevant respiratory control coordinated regulation different aerobic respiratory quotient numerical representation determine prevalent type biomolecule metabolism ratio carbon dioxide produce oxygen consume respirometry method measure metabolism consumption oxygen rest membrane potential electrical potential result unequal distribution charge cell membrane rest membrane potential characterize cell stimulate restriction enzyme enzyme recognize palindromic double stranded dna sequence cut backbone double helix ribonucleic acid rna)–a nucleic acid find nucleus cytoplasm closely link transcription translation gene regulation ribosomal rna rrna)–the structural enzymatic rna find ribosome take translation ribosome organelle compose rna protein translate mrna protein synthesis ribozyme rna molecule enzymatic activity saponification reaction fatty acid strong base result negatively charge fatty acid anion bind metal ion saturation presence absence double bond fatty acid saturate fatty acid single bond unsaturated fatty acid double bond secondary structure local structure neighbor amino acid common α helix β pleated sheet sequencing determine order amino acid polypeptide nucleotide nucleic acid shine dalgarno sequence site initiation translation shuttle mechanism method functionally transfer compound membrane actual molecule cross common example glycerol 3 phosphate shuttle malate aspartate

molecule cross common example glycerol 3 phosphate shuttle malate aspartate shuttle sialic acid common n acetylneuraminic acid nana terminal portion head group ganglioside chain variable component amino acid give amino acid identity chemical property call r group silent mutation mutation wobble position codon non- coding dna lead change protein produce simple diffusion movement solute molecule cell membrane concentration gradient transport protein small nonpolar lipophilic molecule water single stranded dna bind protein protein

bind unravel dna strand prevent reassociation dna degradation dna replication event small nuclear ribonucleoprotein snrnps)–the protein portion small nuclear rna snrna)–the rna portion spliceosome sodium potassium pump atpase exchange sodium cation potassium cation responsible maintain cell volume rest membrane potential solvation layer layer solvent particle interact directly surface dissolve species sphingolipid lipid contain sphingosine sphingoid backbone bond fatty acid tail include ceramide sphingomyelin glycosphingolipid ganglioside sphingomyelin sphingophospholipid contain sphingosine backbone phosphate head group spliceosome apparatus splice intron bring exon mrna processing starch branched polymer glucose energy storage plant common example amylose amylopectin start codon codon mrna molecule code amino acid aug methionine n formylmethionine stereoisomer compound chemical formula backbone differ spatial orientation call optical steroid derivative cholesterol stop codon codon translation uaa uga uag release factor bind terminate translation structural gene operon region code protein structural protein protein involve cytoskeleton extracellular matrix generally fibrous nature include collagen elastin keratin actin tubulin substrate molecule enzyme act substrate level phosphorylation transfer phosphate group high energy compound atp compound occur glycolysis sucrose disaccharide compose glucose fructose supercoiling wrapping dna replication characterize torsional stress potential strand breakage surfactant compound lower surface tension solution act detergent emulsifier tata box site bind rna polymerase ii transcription name high concentration thymine adenine basis tautomerization rearrangement bond compound usually move hydrogen form double bond telomere repeat unit end dna protect loss information repeat dna replication template

unit end dna protect loss information repeat dna replication template strand strand dna transcribe form mrna call antisense strand termination end translation ribosome find stop codon release factor bind allow peptide free terpene class lipid build isoprene moiety carbon group multiple terpenoid terpene derivative undergo oxygenation rearrangement carbon skeleton tertiary structure dimensional shape polypeptide stabilize numerous interaction r

group thyroid hormone primary permissive metabolic hormone involve regulation basal metabolic rate tight junction cell cell junction prevent paracellular transport material tight junction form collar cell link cell titration laboratory technique solution unknown concentration mix solution known concentration determine unknown concentration transcellular transport transport material cell require interaction cytoplasm require transport protein transcription production mrna molecule strand transcription factor protein help rna polymerase ii locate bind promoter region dna transfer rna trna)–a fold strand rna contain three- nucleotide anticodon pair appropriate mrna codon translation charge corresponding amino acid transferase enzyme catalyze transfer functional group translation production protein mrna molecule triacylglycerol glycerol molecule esterify fatty acid molecule common form fat storage body uncompetitive inhibition decrease enzyme activity result interaction inhibitor allosteric site uncompetitive inhibitor bind substrate bind enzyme overcome addition substrate uv spectroscopy method determine concentration protein isolate comparison protein standard rely presence aromatic amino acid nucleic acid van't hoff factor number particle obtain molecule dissociate solution vitamin organic essential coenzyme assist enzyme carry action vmax maximum velocity give quantity enzyme vmax occur enzyme fully saturate watson crick model model propose structure dna double strand helix wax high melt point lipid compose long chain alcohol long chain fatty acid wobble nucleotide codon play role specify amino acid evolutionary development design protect x ray crystallography method determine molecular structure apparent bond angle diffraction refraction x ray zwitterion molecule contain charge neutral overall describe amino acid zymogen enzyme secrete inactive form activate cleavage common example

acid zymogen enzyme secrete inactive form activate cleavage common example digestive enzyme note material figure table indicate italic f t page number adenine 198 t 200 232 abasic site 221 234 abo blood typing 166 absolute configuration 134 absorption lipid metabolism 415f 416 absorptive state 463–464 483 ace angiotensin convert enzyme inhibitor 49–50

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british library cataloguing catalogue record book available british library having reject tradition unconventional acquiescence tyranny death spirit 38 year old happen day great opportunity stand call stand great principle great issue great cause refuse afraid refuse want live long afraid lose job afraid criticise lose popularity afraid somebody stab shoot bomb house refuse live 90 dead 38 90 cessation breathe life belated announcement early death spirit martin luther king control tell forward light brigade man dismay soldier know blunder their reply theirs reason theirs die valley death ride cannon right cannon leğ cannon volley thunder storm shot shell boldly ride jaw death mouth hell ride alfred lord tennyson 1809 1892 mist liğe slowly way ahead leğ street inspire life strength emotion like thunder air 'cos promise haunt end secret beauty mystery soul search meet time mistake impossible grass grow underneath foot word remember childhood true blind lack courage dangerous try know love eternal deny know know hear voice know find know find return moody blues gutless wonder renegade mind monument pen paper turn gutless wonder tolerate child gravity keep head maybe shame manic street preacher rise like lion ağer slumber unvanquishable number shake chain earth like dew sleep fall ye think oh pushbacker sting covid calculated catastrophe virus sequence deceit war mind control cult cowan kaufman morell statement virus isolation think oh rench bear philosopher mathematician scientist rené descartes famous statement latin 17th century translate english think face true thought reflect perception perception lead behaviour self identity sense thinking route perception clearly shall source perception regard humanity rarely case thinking far means perception thought village idiot compare expression consciousness potential access tap true expression

village idiot compare expression consciousness potential access tap true expression consciousness infinite nature forgoĵen point manipulate esoteric musing navel foundation human control oppression control perception perception hijacke behaviour dictate perception collective perception collective behaviour collective behaviour human society perception human control know perception target 24/7 psychopathic manipulator global cult know

dictate perception dictate behaviour collectively dictate nature human society aware perception form information receive control circulation information vast extent direct human behaviour censorship information opinion globally nazi- like recent year blatantly illusory virus pandemic trigger china 2019 world 2020 billion submiĵe house arrest accept fascistic society way believe possible control information spew government mainstream medium silicon valley control global cult network tell danger deadly virus submiĵe house arrest concede basic freedom family protect monumental provable lie perception billion behaviour billion word structure modus operandi human control fear perception false emotion appear real fear currency control short ball impression heart mind follow grip dangly bit freeze rear end comprehensively fear world number 1 world appear world prime difference knowledge mass human society population maintain coldly- calculate ignorance control information education indoctrination system need control enslave billion perceptual delusion perceive thought opinion repeat mantra system download life education medium science medicine politics academia personnel advocate overwhelmingly perceptual product repetition teacher academic general process programming machine unlike great majority leave education program grip student continue grip programmer subsequent generation student program programmer program programmer largely say scientist doctor politician american writer upton sinclair say difficult man understand salary depend understand career income depend think way system demand bar free- minded exception concede mind perceptual mainframe postage stamp consensus tiny band perceive knowledge possibility teach download school university pound mainstream medium government policy found try think especially speak act outside box consensus career mainstream bully harass intimidate ridicule population compliance simple structure enslave humanity

bully harass intimidate ridicule population compliance simple structure enslave humanity perceptual prison cell entire lifetime deeply process shortly humanity teach fact program belief american science fiction author frank herbert right say belief manipulate knowledge

dangerous covid age belief promote knowledge censor extreme today world number 2 day world number 2 global network secret society semi secret group dictate direction society government corporation authority kind spend 30 year uncover expose network global cult know agenda book accurate predict current past event secret society secret reason want hoard knowledge choose initiate hide population seek ignorance control subdue foundation division world 1 world 2 knowledge number 1 know number 2 knowledge work hard secret include agenda enslave humanity centrally control global dictatorship b nature reality life laĵer b suppress allow prevail shall explain way cult manipulate interact population liken spider web spider sit centre shadow impose web strand represent world number 2 secret society satanic semi secret group world number 1 world see government agency government law enforcement corporation banking system medium conglomerate silicon valley fig 1 overleaf spider web connect coordinate organisation pursue global outcome population see individual entity work randomly independently level web government banking system corporation medium silicon valley world health organization work inner core unit apparently unconnected country corporation institution organisation people team pursue global outcome strand web immediately spider secretive exclusive secret society membership emphatically restrict cult inner circle emerge generation particular bloodline reason come core core single room people dictate direction human society transformation covid hoax mean web expand spider meet secret society people aware freemasons knights templar knights malta opus dei inner sanctum jesuit order like note connect church rome reason roman church establish revamp rebranding relocate church babylon cult impose global tyranny today track babylon sumer figure 1 global web control image neil hague

inner level web operate unseen away public eye cusp organisation locate point hidden meet seen include series satellite organisation answer secret society found london late 19th century call round table royal institute international affairs uk found 1920 council foreign relations 1921 bilderberg group worldwide 1954 trilateral commission worldwide 1972 club rome

worldwide 1968 create exploit environmental concern justify centralisation global power save planet club rome instigate human cause climate change hoax lead green new deal demand centralisation control cusp organisation include endless think tank world design coordinate single global policy political business leader intelligence personnel medium organisation influence direction policy sphere operation major player regular aĵender know happen come keep overwhelmingly dark big picture refer cusp grouping semi secret publicly identifie go inner core

keep house member participant fiercely impose system compartmentalisation let know need know serve interest structure secret society serve perfect example principle freemasons high boĵom level degree degree knowledge 33 official degree scoĵish rite initiate qualify high compartment degree level choose allow knowledge carefully assign consider safe go local freemason lodge year ago have open day cuddly chaĵe astonish liĵle rank file know ubiquitous symbol use mushroom technique dark feed bullshit apply people web population sub division web mirror theme structure transnational corporation headquarters world dictate subsidiary different country subsidiary operate methodology branding centrally dictate plan policy pursuit particular end cult web function way country web subsidiary global consist network secret society semi secret group bloodline family job impose spider global web particular country subsidiary network control manipulate national political system finance corporation medium medicine etc ensure follow globally dictate cult agenda network mean covid hoax play country respond way yessir pyramid compartmentalisation key understand tiny dictate life billion combine sequence imposition acquiescence inner core cult sit peak pyramidal hierarchy human society fig 2 overleaf impose agenda world level immediately acquiesce imposition level impose cult level acquiesce impose level quickly meet level hierarchy idea cult sequence imposition acquiescence continue pyramid high beĵer alfred lord tennyson say cannon fodder level poem charge light brigade their reason theirs die line say valley death ride die obey question perceive superior tell way population capitulate covid hierarchical

pyramid function like allow direct enormous eventually imposition acquiescence imposition acquiescence come mass population foot pyramid acquiesce level hierarchy impose government law enforcement doctor medium circuit complete population handful super- psychopath cult inner core pyramid circuit break refusal obey sequence imposition acquiescence allow staggeringly people impose entirety humankind look sequence subjugate billion start 2020 freedom take humanity give away fascist impose fascism fascism impose population acquiesce fascism way

away fascist impose fascism fascism impose population acquiesce fascism way allow perception program extent lead population give freedom away give perception mind away circuit break humanity cease cooperate enslavement change happen people critically think lie window dressing summon backbone act cult spend day work stop happen methodology systematic highly detailed overcome book figure 2 simple sequence imposition compliance allow handful people peak pyramid dictate life billion life program okay world number 1 world masse observe process life perceptual download cradle grave cult create global structure perception program program continually top appear constant confirmation program true reality important word appear structure fly trap postage stamp consensus perceptual mainframe represent incredibly narrow band perceive possibility deliver education system mainstream medium science medicine early age download begin parent succumb programming child parent malevolence opposite believe good child program tell good year come major transition parental programming full- blown state cult programming school college university perceptually program teacher academic pass programming generation teacher resist soon marginalise career end child resist call problem child ritalin need prescribe year ağer enter world child control authority figure represent state tell leave speak eat toilet calculate preparation lifetime obey authority form reflex action fear authority instill authority start child soon learn carrot stick consequence obey defy authority underpin daily rest life fortunately daydream crap obey authority simply tell approach allege beĵer continue day

consequence pursue open minded freedom world closed minded conformity spend lot time school corridor ağer eject classroom take seriously spend lot time eject facebook youtube twiĵer tell true compromise self respect far exhilarating bow authority authority sake sheep shepherd authority sheep dog fear obey authority perceptual download continue formative year school college university script read teacher academic scientist doctor journalist insist ongoing generation programmed accept program pass exam confirm degree programming tragic think parent pressure

program pass exam confirm degree programming tragic think parent pressure offspring work hard school download program qualify stage college university late great american comedian george carlin

say bumper sticker like proud parent child resist teacher aĵempt break spirit bend corporate master good luck finde george come moment leave formal programming year academia enter adult world work meet choose prescribe arena go postage stamp consensus program overwhelming agreement basic foundation postage stamp reality rejection contempt mind prepared use major effect firstly consensus confirm program download thing mean know right secondly arrogance ignorance postage stamp adherent ensure question program unpleasant consequence seek truth pick perception shelf mark thing believe question dangerous lunatic conspiracy theorist government agency corporation found postage stamp prison cell people believe thing call opinion fusion government corporation pursuit agenda definition fascism describe italian dictator benito mussolini pressure conform perceptual norm download lifetime incessant infiltrate society right family group censor condemner black sheep ironically sheep see explosion covid era cult own global medium unleash propaganda day day support postage stamp target abuse ridicule public eye will bend mind tyranny response deny certainly case want platform expose official lie cult own create internet giant like facebook google youtube twiĵer delete have unapproved opinion facebook boast ai censor

delete 97 percent hate speech report hate speech simply opinion facebook master want people perceptual oppression widely know fascism facebook executive benny thomas ceo global planning lead say comment secretly record investigative journalism operation project veritas facebook powerful break mean king history ruler billion people mark zuckerberg 36 36 year old power billion people think wrong

thomas say facebook own platform like instagram oculus whatsapp need separate company power way cult like executive cult organisation benny thomas know cult compartmentalisation thomas say facebook google long company country actually powerful country basis control information control perception control human society love oppressor expression psychological trickery realise pressure compliance eventually convince believe official narrative protect self respect accept truth succumb meek subservient compliance people vehement defender system scream abuse prefer think capitulation conformity talk dangerous nonsense covidiot try convince potent form stockholm syndrome define psychological condition occur victim abuse identifie aĵache bond positively abuser example hostage bond fall love kidnapper syndrome observe domestic violence abuse child concentration camp inmate prisoner war satanic cult trait stockholm syndrome list positive regard perpetrator abuse captor failure cooperate police government authority come hold perpetrator abuse kidnapping accountable case covid cooperate police enforce defend captor demand liĵle effort escape covid belief goodness perpetrator kidnapper appeasement captor manipulative strategy maintain safety victim reward abuse life appease behaviour reinforce covid learn helplessness akin beat em join em victim fail escape abuse captivity start give soon realize easy acquiesce power captor covid feeling pity abuser believe actually victim victim crusade mission save protect abuser venom unleash challenge official covid narrative unwillingness learn detach perpetrator heal essence victim tend loyal abuser definitely covid ponder trait compare behaviour great swathe global population defend government authority spend minute destroy life livelihood child grandchild early 2020 fascistic lockdown house arrest

employment deletion protect deadly virus abuser perceptually create bring outcome look mass stockholm syndrome agree concede freedom believe perception originate independent mind fact concede reality stockholm syndrome definition concede independence mind listen opinion acquiesce masse covid era gush forth repetition official version deliver unprocessed unfiltered unquestioned programming dynamic work way free tell think mean chapter theme think oh great majority think

tell think mean chapter theme think oh great majority think let repeat authority tell believe allow control weave mentality fear conspiracy theorist right explain oğen hysterical abuse ensue dare contest official narrative denial mechanism hide want true tell people want hear easy infinitely great challenge tell happen akin push open door meet vehement resistance maĵer scale evidence want true convince example denial partner cheat despite sign reflex action rejection idea world event country ağer country act exactly way centrally coordinate accept laĵer accept force unspeakable evil work destroy life life child horrific achieve end heck want true face reality end duly achieve consequence far bad ongoing break wall denial today courage stand tyranny connect dot crucial aspect perceptual programming portray world random connect randomness coordinate nature perceive event random idea connect wave away ranting tinfoil hat brigade plan coordinate random idiot hide coldly calculate long plan illusion randomness foundation manifestation renegade mind scan reality paĵern connect apparently random turn pixel dot picture way work 30 year look similarity people modus operandi desire outcome slowly quick picture form instance connection covid pandemic hoax human cause global warming hoax mask appropriately face seek outcome push global warming myth club rome cult agency drive lie covid bill gates obvious endless people involve clearly connect oh common theme personnel match common goal solution problem centralisation global power impose save humanity covid save planet existential threat need zero covid zero carbon emission turn connect dot globalisation coin describe centralisation global power area life incessant political corporate expansion trading block superstate like

european union want control centralise power decision making centralise power power centre power centralise power centre centralise quick momentum centralisation get fast fast exactly process witness way hoaxed pandemic fakery human cause global warming serve interest globalisation seizure global power hand cult inner circle

serve interest globalisation seizure global power hand cult inner circle covid climate change globalisation point random dot clear obvious picture paĵern klaus schwab classic bond villain found cult gates fund world economic forum publish book 2020 great reset problem covid justify total transformation human society save humanity climate change schwab say pandemic represent rare narrow window opportunity reflect reimagine reset world mention cult serve hoax book answer cult reimagine world know precisely want destroy human society covid build beĵer grand design job imagine humanity imagine agree plan believe random pure coincidence great reset long cult code global imposition fascism replace previous code name new world order cult frontman like father george bush new order ages emerge freemasonry old secret society new order ages appear reverse great seal united states novus ordo seclorum underneath cult symbol way pyramid see eye fig 3 pyramid hierarchy human control head illuminate eye symbolise force cult expose later chapter term annuit coeptis translate favour undertaking tell christian god explain figure 3 see eye cult god freemason design great seal united states dollar bill have major cult technique perceptual manipulation relate call 1990 problem reaction- solution prs totalitarian tiptoe tt uncover inquire mind simple question benefit answer usually identifie perpetrator give action happen concept benefit crime likely commiĵe latin cue bono benefit widely aĵribute roman orator statesman marcus tullius cicero wonder go far concept relevant human behaviour history record problem reaction solution technique manipulate day covertly create problem illusion offere solution problem illusion first phase create problem blame happen relate financial collapse terrorist aĵack war global warming pandemic fact allow impose solution change society way desire time problem real prs manipulation perception need population believe problem real human cause global

warming covid pandemic perceive real population accept solution authority refer technique problem reaction solution billion meekly

accept solution authority refer technique problem reaction solution billion meekly accept house arrest early 2020 real deadly covid pandemic perceive believe case antidote problem-reaction solution ask benefit propose solution invariably want justify control deletion freedom centralisation power world war problem reaction solutions transform realign global society manipulate cult detail book mid- 1990 dramatically centralise global power especially world war lead united nations global body thank overt covert manipulation rockefeller family cult bloodline like rothschilds un stalk horse blown world government come shortly land un building stand new york donate rockefellers cult family big pharma scalpel drug medicine creation world health organization un stalwart eugenic movement fund hitler race purity expert ernst rudin human cause global warming hoax orchestrate club rome un manufacture problem intergovernmental panel climate change impose solution agenda 21 agenda 2030 demand total centralisation global power save world climate hoax united nations perpetrate small world cult see particularly inner circle bedfellow problem reaction solution totalitarian tiptoe totalitarian sprint 2020 technique fashion hide carefully coordinate cover apparently random event start sequence know head z want people know step journey present random happening step string lead direction speed quicken dramatically recent time incremental approach tiptoe case covid new imposition take deeply fascism tell people normal new demand add one go population freedom delete disappear spider wrap web flie comprehensively new diktat highlight detail covid hoax pull off.

prime example totalitarian tiptoe cult create european union go free- trade zone centralised bureaucratic dictatorship tiptoe incremental centralisation power nation mere administrative unit cult own dark suit brussels antidote ignorance knowledge cult seek vehemently deny despite systematic censorship end renegade mind overcome vociferously seek fact majer

impediment way method thinking perceive know need name date place type fact identify paĵern reveal story final chapter need know manipulation human society end time writing form book video website want breach wall program perception access knowledge require abandonment mainstream medium source information awareness own control cult promote mass perception suit cult mainstream medium lie day day function reason tell truth truth cult agenda occasionally coincide look fact insight bbc cnn virtually rest ask con perceptually program know outcome journey event random idea world take random carefully plan know outcome journey phrase long time context daily happening appear unconnected problem illusion problem trigger propose solution drive society direction outcome invariably answer yes random abracadabra clearly coordinate outcome unlock door massively expand understanding daily event summarise major aspect fine detail book new information world think live different place foundation cult agenda incessant centralisation power centralisation ultimately pursuit cult control global level describe long time plan world structure dictatorship hunger games society term obviously come movie series portray world live military protect hi tech luxury overlord population condemn abject poverty isolated sector allow interact covid lockdown travel ban hunger games pyramid structural control inner circle cult preĵy entire population boĵom control dependency survival cult structure plan protect enforce military police state fig 4 reason global lockdown fake pandemic coldly destroy independent income livelihood dependent state cult control state warn book year plan introduce guarantee income barely survivable piĵance design impose dependency employment destroy ai technology comprehensively great speed covid scam pandemic play lockdown consequence begin delete

great speed covid scam pandemic play lockdown consequence begin delete independent income authority begin talk right cue need guarantee income great reset guaranteed income present benevolent government

seek help

desperate people desperate direct result action government truth payment trap exactly authority demand include mass vaccination genetic manipulation see theme australia dependent government benefit reduce parent agree child vaccinate accord insane health-destroy government dictate schedule calculated economic collapse apply government people cult want rid country creation world state country break region rule world government super state like european union country bankrupt end achieve trillion rescue package furlough payment trillion lose taxation money object spending covid include constant all- medium advertising programming medium dependent government income day reckoning come plan government spending give possible print money production taxation inflation way potential wipe monetary value case need cult steal money will worth german weimar republic nazis take okay lockdown geĵe percentage income call furlough payment have work payment dependent people have theoretical job business consider non essential order close business close lockdown ağer lockdown furlough stop eventually precisely idea figure 4 hunger games society structure long warn plan covid hoax possible real reason lockdown hunger games cult elite dependent population plan vicious military police state fusion force making long time police look like military carry weapon match pandemic scam see process accelerate fast lockdown house arrest brutally enforce carefully recruit fascist mind gormless system server police military plan merge centrally direct world army global structure head world government elect election fixe place world army plan human instead war fight primarily population robot technology control artificial intelligence warn decade military world transform ai technology global regime describe particular form fascism know technocracy decision clueless co opt politician unelected technocrat scientist engineer technologist bureaucrat cult own control silicon valley giant example technocracy far power direct world event government censorship select government know call great reset marxist communist takeover fascism marxism different label tyranny tell live fascist germany stalinist russia difference way freedom delete

tell live fascist germany stalinist russia difference way freedom delete life control fascist technocracy marxist technocracy equally accurate hunger games society world government structure oversee world army world central bank single world cashless currency impose microchipped population fig 5 scan different element illusory pandemic force society direction great speed leader 23 country world health organization back idea march 2021 global treaty international cooperation health emergency nation come global community peaceful cooperation extend crisis cut orwellian bullshit mean step

global government plan include cashless digital money system first warn 1993 right start covid deeply corrupt tedros adhanom ghebreyesus crooked merely gofer head world health organization say possible catch virus touch cash beĵer use cashless mean claim ridiculous nonsense like covid mind trick health push aspect cult agenda result tedros lie use cash plummet cult script involve single world digital currency eventually technologically embed body china massive global centre cult watch happen know plan chinese government develop digital currency allow fine deduct immediately ai catch camera break fantastic list law money go programmable expiry date ensure accrue wealth cult figure 5 structure global control cult work long enormously advance covid illusion serfdom smart cult plan far wide extreme comprehensive conspiracy researcher appreciate come true depth deceit control chapter control cult escape wetiko world know crazy deluge sophisticated controlling technology heading smart smart television smart meter smart card smart car smart driving smart road smart pill smart patch smart watch smart skin smart border smart pavement smart street smart city smart community smart environment smart growth smart planet smart smart technology method operation design interlock create global smart grid connect entirety human society include human mind create centrally dictate hive mind smart city code densely occupy megacitie total surveillance control ai destructive frequency communication system like 5 g roll official testing health psychological effect colossal 5g/6g/7 g system need run

smart grid destructive body mind delete independent income crucial force people ai police prison end private property ownership cult elite cult great reset openly foresee global society possession rent cult literally guise government corporation aim use lockdown destroy source income mass scale people destitute unrepayable amount debt problem cult asset come forward pledge write off debt return hand property possession solution literally include people connect internet ai warn year ago come

literally include people connect internet ai warn year ago come internet things iot device technology car fridge plug internet control ai come stage internet ioe plan include connection ai human brain body replace human mind centrally control ai mind instead perception manipulate control information censorship perception come direct cult ai think think ai decide think human term individual think long incredible raving lunatic cult own crazy silicon valley tell plan year explain real motivation calculated implication include google executive futurist ray kurzweil highlight year 2030 underway say thinking hybrid biological non biological thinking human able extend limitation think cloud go gateway cloud brain go gradually merge enhance view nature human transcend limitation technology vastly superior small proportion human get small small small utterly negligible sale pitch kurzweil cult own silicon valley super human real aim post human long human sense come know entire global population connect ai centrally control hive mind externally deliver perception smart grid instal impose cult world construct allow particular location location control global system prime control centre absolutely include china israel connect internet switch off manipulate energy system cut communication internet take computer control driverless autonomous vehicle drive off road medical device switch off potential limitless give ai internet connection run human society see allow continue autonomous vehicle maker work law enforcement produce car design automatically pull detect police emergency vehicle flashe 100 foot away police stop car unlock window roll automatically vehicle computer state allow end petrol vehicle speed limiter new car uk eu 2022 step lead electric computerised transport ultimately control picture far big cult

global network web clear nature spider connection happening instigation dna manipulate vaccine vaccine justifie covid hoax connection unfold plan transform human body biological synthetic biological state synthetic biology fast emerge discipline mainstream science covid vaccine infuse self replicate synthetic

emerge discipline mainstream science covid vaccine infuse self replicate synthetic genetic material cell cumulatively totalitarian tiptoe human 1.0 synthetic biological human 2.0

physically perceptually aĵache smart grid percent control thought perception deed humanity need wake fast bare explanation outcome plan journey happen new information covid new context add detail minutia evidence mega work answer trigger need know tell renegade mind world thing clever wise george r.r. martin simple definition difference program mind renegade mind see dot connect picture read reality accuracy require observer know plan outcome b realise connect entirety infinite reality connect nature human society expression infinite reality apply simple cause effect connection effect trigger cause effect cause effect happen isolation life reality simple choice consequence choice lead consequence like consequence different choice different consequence lead choice consequence choice consequence connected indivisible old song go control world control allow happen cause effect choice consequence control way process symbiotic relationship involve controller control take freedom away yes give humanity subject mass control humanity acquiesce control cause effect literally case way world event kind connect cult work incessantly sell illusion random coincidental maintain essential perception dot hide picture renegade mind know constantly scan world paĵern connection absolutely pivotal understand happening world perspective clarity impossible know plan outcome identify step journey day by- day apparently random connect relation outcome long appear individual event proverbial chain event lead direction political puppet tell believe politics adversarial different party different belief engage endless tussle power truth point point today division different party rhetorical ideological

rhetorical fuse speak party eject remain free thinker succumb gather intimidation wrong opinion cult new phenomenon trace thousand year book document intergenerational initiate manipulate event increase effect global power centralise ancient time cult secure control system monarchy special bloodline later demand right rule king queen simply birthright vanquish claim birthright come time people mature unfairness tyranny demand govern note word govern serve govern government define political direction control exercise action member citizen inhabitant

government define political direction control exercise action member citizen inhabitant community society state direction affair state community etc government exercise control serve like monarchy bizarrely country like united kingdom rule monarch government officially answer monarch uk head state commonwealth country canada australia new zealand select single family unprotected sex order pinch true ouch shit demise monarchy country offere potential vacuum form free fair society arise cult base cover monarchy serve interest continue face widespread opposition replace royal dictatorship people dictatorship people hide concept democracy present far great manipulative possibility way hide coordinate tyranny illusion freedom democracy wrongly define government select population case government select population theory majority see oğen first- past post election call majority party win few vote lose party combine democracy total power party government minority vote cast sleight hand sell tyranny freedom seventy million trump support americans vote democratic party joe biden distinctly dodgy election 2020 far acknowledge wish feeling great percentage american society cult own biden government set day destroy right voice opinion shell biden cult handler say lunacy sickness politic descend connect dot relate desire outcome world government run self appoint technocrat long elect politician operate political agent government cult time encourage public distain politician puĵe idiot incompetent theoretical power road delete idea instil public reaction say technocrat worse pathetic politician control perception renegade minds program mind ignorant plan outcome manipulation technique employ secure end

knowledge learn fast people choose inform politic first sight appear difficult control central point mean look different party able oversee constituent part truth straightforward structure pyramid imposition acquiescence organisation structure way system political party open forum free expression hierarchy national spokesman british green party claim different kind politic influence power devolve tell direct experience far bad green party run hierarchy like try hide fact kid true political party direct policy

like try hide fact kid true political party direct policy personnel decide elevate party serve government minister yes man woman look maverick political thinker ascend greasy pole want progress party reach high office need fall line conform exception rare want run parliament congress persuade local state level party select need play game dictate hierarchy secure election wish progress great structure need conform acceptable run hierarchy peak pyramid political party perceptual gulag fact party whip appoint whip politician vote way hierarchy demand expose ridiculous idea politician elect serve people suppose represent cult operative manipulation long seize control major party chance form government new party form cult go work infiltrate direct reach level today video compilation leader party democrats republicans conservative labour green parrot cult mantra build beĵer great reset straight off cult song sheet describe transformation global society response cult instigate hoax covid pandemic human cause climate change caroline lucas green party mp know party 1980 speak support plan propose cult operative klaus schwab represent billionaire global elite real head shaker party master party system mind trick instigate change nature dictatorship swap royalty dark suit people believe represent interest understand trick realise single force cult control party directly term major one manipulation perception ideology need manipulate green party demand transformation society climate change obsess lie essential save planet platform away serve interest believe environmentally virtuous america political structure perfect blueprint multi- party system party state republican party control step shadow group billionaire gofer know neoconservative neocons expose fine detail book drive force policy imbecilic presidency

boy george bush include 9/11 trigger comprehensive demolition official story subsequent war terror war terror invasion afghanistan iraq laĵer problem reaction solution base claim cult operative include bush british prime minister tony blair saddam hussein weapon mass destruction exist war criminal bush blair know figure 6

mass destruction exist war criminal bush blair know figure 6 different people different party control system democratic party neocon group control background democons penny drop neocons democons answer master step shadow fig 6 level cult republican democrat party control people maĵer power cult power work country certainly britain conservative labour liberal democrat green party page rhetoric feeble aĵempt appear different neocon operate time bush think tank call project new american century september 2000 publish document entitle rebuilding america defenses strategies forces resources new century demand america fight multiple simultaneous major theatre war core mission force regime- change country include iraq libya syria neocon arrange bush republican blair labour party

front- invasion iraq depart democons orchestrate targeting libya syria barack obama democrat british prime minister david cameron

conservative party different party different people unfold script cult seize reign party personnel policy transparently pursue agenda point fascist covid imposition conservative junta jackboot johnson britain oppose labour party fascist labour party liken democrats conservative party akin british version republicans side atlantic speak language support direction demand cult enthusiastically similar story country ağer country centrally control oh trump come shortly political choice party system go like vote party government like time vote party b government like preĵy party control force give party chance form government rid party b like vote party like lady gentleman democracy tell wrongly term interchangeable freedom cult cult point need introduce major expression global cult know sabbatian frankism sabbatian

spell sabbatean summarise publish major exposé detailed background work sabbatian frankism combine name fraud pose jewish man sabbatai zevi 1626 1676 rabbi black magician occultist proclaim jewish messiah jacob frank 1726 1791 polish jew black magician occultist say reincarnation messiah zevi biblical patriarch jacob work century establish sabbatian frankist cult play major central role manipulation human society global cult origin history sabbatai zevi emphasise point response shrill voice scream anti semitism 1 sabbatian frankists jewish pose hide cult jewish façade 2 information cult come jewish source long realise society community infiltrate take interloper sabbatian frankists infiltration foundation technique sabbatian frankism official origin 17th century zevi sabbatian sect aĵracte massive following describe big messianic movement jewish history spread far africa asia promise return jews promised land israel sabbatianism judaism inversion mainstream judaism stand sinister cult feast day judaism fast day forbid judaism sabbatians encourage command include incest today call satanism member forbid marry outside sect system keep child ignorant old trust unknowingly reveal outsider system employ day global cult general sabbatian frankism enormously influence largely control zevi sabbatians suffere setback intervention sultan islamic oĵoman empire middle east republic

suffere setback intervention sultan islamic oĵoman empire middle east republic turkey zevi locate sultan give choice prove divinity convert islam face torture death funnily zevi choose convert appear supporter disillusioned driğe away 300 family convert theory islam continue islamic smokescreen follow goal rule ritual sabbatianism know crypto jew dönmeh mean turn ironic turn instead hide fake islamic persona process appear thing calling card sabbatianism especially ağer zevi death arrival satanist jacob frank 18th century cult sabbatian frankism plumb new depth depravity infiltration include include human sacrifice sex child sabbatians paedophilia satanism follow surprise hollywood infested child abuse satanism establish sabbatian frankists control hollywood prime vehicle global perceptual programming manipulation believe version history portray movie travesty inversion truth rabbi marvin

antelman describe frankism book eliminate opiate movement complete evil jewish professor gershom scholem say frank messianic idea judaism action truly corrupt degenerate individual frightening phenomenon jewish history frank excommunicate traditional rabbi zevi frank undeterred enjoy vital support house rothschild infamous banking dynasty inner core sabbatian frankists jews infiltration roman church vatican instigate frank dönmeh turn convert roman catholicism view hijacke rein power repeat modus operandi continue pose advocate religion culture country want control manipulate people position authority influence largely adviser administrator svengali appear power judaism christianity christian zionism islam religion nation sabbatian frankism span world sabbatian saudis terror network expression sabbatian frankist dönmeh islam rule family saudi arabia house saud come vile distortion islam know wahhabism violent creed follow terrorist group like al qaeda isis islamic state wahhabism hand chop head chop religion saudi arabia people constant state fear interloper house saud continue rule al qaeda islamic state lavishly fund house saud create direct sabbatian frankist network united states operate pentagon cia government general whichever party man establishment wahhabism middle 18th century sabbatian frankist crypto jew pose islamic call muhammad ibn

century sabbatian frankist crypto jew pose islamic call muhammad ibn abd al wahhab daughter marry son muhammad bin saud establish first saudi state death 1765 support british empire bin saud successor establish modern saudi arabia league british americans 1932 allow seize control islam major shrine mecca medina dictate direction sunni islam iran major centre shiite version source public conflict sabbatian network wahhabi extremist carry problem reaction solution terrorist aĵack al qaeda islamic state justify devastating war terror increase surveillance population terrify people compliance insight renegade mind streetwise understanding country location people aĵacke mean apparently represent country location people aĵacker oğen orchestrate aĵack societal change justifie save population terrorist great detail trigger sabbatian frankists real perpetrator 9/11 19 arab hijacker blame happen observe

justifie 9/11 term middle east invasion mass surveillance control fulfille demand project new american century document publish sabbatian neocons appear enemy deep inside player sabbatian team

israel arab royal dictatorship rule sabbatians recent peace agreement israel saudi arabia united arab emirates uae make formal case scene palestinians subject grotesque tyranny israel bomb terrorise existence 1948 stand chance sabbatian frankists control israel constant theme violence war sabbatians love control arab country palestinians look real support come royal family arab world saudi arabia bahrain uae etc sabbatians allegiance aim cult good arabic population steal oil financial resource people false claim royal dynasty genetic right rule employ vicious military impose satanist jacob frank form alliance 1773 sabbatians mayer amschel rothschild 1744 1812 founder rothschild banking dynasty jesuit educate fraudulent jew adam weishaupt lead formation bavarian illuminati firstly 1776 illuminati manipulate force french revolution 1789 1799 involve american revolution 1775 1783 ağer illuminati official creation weishaupt later public protestant christian archetypal sabbatian style read decode adam weis- haupt first man lead know leader sense subordinate lead crusade transform human society continue today theme confirme early 1785 horseman courier call lanz report strike lighting extensive illuminati document find saddlebag link weishaupt detail plan world takeover current event covid fascism making long time jacob frank jail 13 year catholic inquisition ağer arrest 1760 release head frankfurt germany home city headquarter house rothschild alliance strike mayer amschel rothschild weishaupt rothschild arrange frank give title baron wealthy nobleman big following jews germany austro hungarian empire european country believe illuminati come zohar body work jewish mystical bible call kabbalah zohar foundation sabbatian frankist belief hebrew zohar mean splendour radiance illuminate illuminati claim illuminated ones knowledge systematically hide human population pass generation carefully choose initiate global secret society network cult hidden knowledge include awareness cult agenda world nature collective reality explore later cult illumination

symbolise torch hold statue liberty giğe new york

french freemasons paris know exactly represent liberty symbolise goddess worship babylon queen semiramis ishtar significance clear notice ubiquitous theme inversion statue liberty symbolise mass control fig 7 mirror image statute stand island river seine paris new york liberty originate fig 8) large replica liberty flame stand pont de l'alma tunnel paris princess diana die cult ritual describe biggest secret lucifer light bringer relate lucifer central figure sabbatian frankism associate satanism sabbatians reject jewish torah pentateuch five book moses old testament know genesis exodus leviticus numbers deuteronomy claim judaism christianity dictate god moses mount sinai sabbatians apply seek replace zohar absorb judaism follower inversion expression great global inversion want delete religion force humanity worship world religion sabbatian satanism include worship earth goddess satanic theme introduce mainstream society christianity currently foremost target destruction plan follow figure 7

cult goddess babylon disguise statue liberty hold flame lucifer light bringer figure 8 liberty mirror image paris new york version originate rabbi marvin antelman connect illuminati jacobins eliminate opiate jacobins force french revolution link bund der gerechten league network inflicte communism marxism world antelman write original inner circle bund der gerechten consist bear catholics protestants jews sabbatian frankist infiltrator representative respective subdivision formulate scheme ultimate destruction faith heretical catholics lay plan feel century ultimate destruction church apostate jews ultimate destruction jewish religion sabbatian create communism connect anti religion agenda communism allow free practice religion sabbatian bund international communist party communist league 1848 marxism bear communist manifesto sabbatian asset karl marx friedrich engels absolutely coincidence marxism different fascist centrally control tyranny impose worldwide result covid hoax marxist fascist china place hoax originate reason clear chapter covid calculated catastrophe call woke

mentality hijacke traditional belief political leğ replace far- right believe social justice beĵer know marxism woke swallow perceive revolution work billionaire billionaire corporation feign woke marxism tout wokers replacement capitalism capitalism cartelism market stitch cult billionaire corporation bankroll woke billionaire love marxism keep people servitude control terminally naïve wokers think change world vital surplus requirement target illuminati jacobins period know terror french revolution 1793 1794 jacobin maximillian de robespierre orwellian commiĵee public safety kill 17,000 enemy revolution friend revolution karl marx 1818 1883 sabbatian creed marxism cost life 100 million people hero wokers systematically keep ignorant real history education programming result promote sabbatian marxist abomination destine point consume rabbi antelman spend decade research sabbatian plot say league contrary popular opinion karl marx originate communist manifesto pay service league know country origin germany bund der geaechteten antelman say text aĵributed marx work people marx repeat say marx hire hack lackey wealthy illuminists

marx famously say religion opium people sabbatian plan demonise religion antelman call book eliminate opiate marx bear jewish family convert christianity sabbatian modus operandi support sabbatian plan destroy traditional jewishness judaism clearly see today vindictive targeting orthodox jews sabbatian government israel covid law follow religion damage world century act perceptual straightjacket renegade mind ask maĵer agree disagree happen happen question answer regard religion religion create interact community believer cult want dismantle discourse unity interaction covid lockdown ultimate goal delete religion one- world religion cult satanism worship god later gun control america gun want cult seek disarm population time law enforcement agency armed molar tyrant history seek disarm people launch final takeover include hitler stalin pol pot mao follow confiscation violent seizing power know cult agenda people immediately race microphone exploit dead people multiple shooting ultra zionist cult lackey senator chuck schumer straight case ağer people kill boulder colorado march 2121 simple rule schumer want cult want ultra- zionist mate wild eyed senator adam

schiff. time call disarmament americans live long way police response schumer schiff rest pampered clown siĵe capitol hill razor wire security fence protect thousand armed troop addition armed bodyguard mom pop isolated home potential mass shooter sabbatian frankists importantly rothschilds creation zionism political movement demand jewish homeland israel promise sabbatai zevi symbol israel come german meaning rothschild dynasty founder mayer amschel rothschild change family bauer rothschild red shield german deference pointed star david hexagram display family home frankfurt symbol later appear flag israel ağer rothschilds centrally involve creation hexagram uniquely jewish symbol widely occult hidden network oğen symbol saturn book zionism jewishness interchangeable zionism political movement philosophy race people jews oppose zionism non jew include president joe biden zionists israel centric donald trump america support israel government preĵy gimme ultra zionist billionaire corporation provide fantastic dominant funding

political party congresswoman cynthia mckinney tell approach immediately run office sign pledge israel confirm vote country good interest american politician approach way refuse support funding enormous powerful zionist lobby include organisation like mega lobby group aipac american israel public affairs commiĵee trump big funder ultra zionist casino medium billionaire sheldon adelson major funder democratic party include ultra zionist george soros ultra- zionist financial medium mogul haim saban reel suggestion soros israel-firster sabbatian control israel-firster renegade minds watch action word soros donate billion sabbatian agenda benefit spirit sabbatian inversion soros pledge $ 1 billion new university network promote liberal value tackle intolerance announcement annual speech cult own world economic forum davos switzerland january 2020 ağer

harsh criticism authoritarian ruler world laugh brazen mendacity laugh mystery translate orwellian liberal value tackle intolerance mean teach non white people hate white people white people loathe bear white reason anti semitism fraud zionists support jewish homeland

land palestine sabbatian rothschild goal long benefit jews sabbatians global anti semitism industry skew public political opinion equate oppose violent extreme zionism blanket aĵack condemnation jewish people sabbatians global anti semitism industry skew public political opinion equate oppose violent extreme zionism blanket aĵack condemnation jewish people sabbatian protection racket stop legitimate investigation exposure agenda activity official definition anti semitism recently expand include criticism zionism political movement stop exposure sabbatian infiltrator create zionism know today 19th century renegade minds talk subject know shit come way people decide want know truth cower corner fear sabbatians try label anti semitic 1990 uncover background agenda useless gutless fraudulent journalist repeat smear question day write section pair unquestioning repeater call ben quinn archie bland appropriate outright call anti semite establishment propaganda sheet london guardian support evidence sabbatian anti semitism industry say question dare ironically semitic refer group language middle east entirely arabic anti semitism anti arab consequence misunderstanding grave hilarious bother tell quinn bland want confuse bless em reason dub anti semitic write 1990 jewish operative sabbatians heavily involve russian revolution sabbatians overthrew romanov dynasty apparently anti- semitic oh section trigger british journalist robert wilton confirm theme 1920 book days romanovs study official document russian government identify member bolshevik ruling elite 1917 1919 central committee include 41 jews 62 member council people commissars 17 jews 22 member 458 556 important bolshevik position 1918 1919 occupy jewish people 17 russian 23 jews 36 member vicious cheka soviet secret police establish 1917 soon appear country professor robert service oxford university expert 20th century russian history

find evidence jewish leon trotsky seek sure jews enrol red army disproportionately represent soviet civil bureaucracy include cheka perform mass arrest imprisonment execution enemy people state department decimal file 861.00/5339 date november 13th 1918 name rothschild banking agent america jacob schiff list ultra zionist funder russian revolution lead claim jewish

plot key point miss jews sabbatian frankists britain winston churchill error mistake write 1920 edition illustrated sunday herald russian revolution worldwide conspiracy overthrow civilisation reconstitution society basis arrested development envious malevolence impossible equality woke today create network churchill say need exaggerate play creation bolshevism actual bringing russian revolution international atheistical jews atheistical jews = sabbatians churchill say certainly great probably outweigh notable exception lenin majority lead figure jews go describe knowingly sabbatian modus operandi place puppet leader nominally power control background principal inspiration drive power come jewish leader tchitcherin pure russian eclipse nominal subordinate litvinoff influence russians like bukharin lunacharski compare power trotsky zinovieff dictator red citadel petrograd krassin radek jews soviet institution predominance jews astonishing prominent principal system terrorism apply extraordinary commissions combatting counter revolution take jews notable case jewesses say seriously disproportionate involvement russian revolution jewish revolutionary sabbatians provable fact truth defence sabbatian anti- semitism industry repeater parrot like quinn bland breathtaking network call woke anti hate group interlock leadership funding role discredit silence get close expose sabbatians see truth defence confirme legal judgement

saskatchewan human rights commission canada decree truthful statement present manner meet definition hate speech truthful statement free restriction anti hate activist consume hatred stupid ignorant world know far far virtue signal arsis far dark revolution game background method russian revolution straight sabbatian playbook see french revolution endless world appear start revolution people tyrannical rule end regime change tyrannical rule overtly covertly war terror aĵack regime overthrow follow sabbatian cult history agent create problem reaction- solutions remove opposition road world domination sabbatian dot connect rothschilds illuminati jacobins french revolution bund league international communist party communist league communist manifesto karl marx friedrich engels lead rothschild fund russian revolution sequence come heading creative destruction advance global goal

continually destroy status quo install new status quo destroy world war come mind new status quo close plan outcome war mass murder sabbatians collective blood sacrifice ritual obsess death reason death inversion life satanists sabbatians obsess death oğen target church churchyard ritual inversion obsess sabbatians explain use inverted symbolism include invert pentagram inverted cross inversion cross relate target christianity cross religious symbol long christianity inversion statement sabbatian mentality goal single religion sabbatians operate germany rise occult obsess nazis subsequent jewish exodus germany europe palestine united states ağer world war rothschild dynasty forefront political manipulator fund operation sabbatians help orchestrate horror inflicted jews nazis stalin ağer organise russian revolution sabbatians hate jews religion pose jews secure position control jewish society play anti semitism card protect exposure global network organisation answer sabbatian create control globe span intelligence network involve stunning web military intelligence operative operation tiny country million jewish asset sabbatians jewish community protect program childhood believe jew hate hostile world jewish community highly convenient cover hide true nature sabbatians geĵe close expose game accuse sabbatian place people gofer anti- semitism claim jews plot world say say sabbatians

gofer anti- semitism claim jews plot world say say sabbatians real jew hater infiltrate jewish community use cover anti semitic defence exposure anti semitism industry target researcher way jewish people think justified genuine know jewish leader institution state intelligence military control jews cultist stooge sabbatian frankism add pro- jewish freedom petition online time look go text add petition blurb aĵack anti semite scale perceptual programming move america tell story trigger chapter call atlantic crossing particularly ağer israel establish sabbatians move united states eventually grasp control government administration political system democrats republicans intelligence community like cia national security agency nsa pentagon mass medium seriously compartmentalise network sabbatians operative mossad israeli defense forces idf agency pull off 9/11 blame 19

al qaeda hijacker dominate man connect sabbatian rule saudi arabia 19 plane let flew big passenger jet building largely incompetent pilot engine light aircrağ.

hijacker hani hanjour say flown american airlines flight 77 pentagon turn manoeuvre professional pilot say struggle ban rent small plane instructor freeway airport bowie maryland week early ground incompetent pilot jewish population world 0.2 percent entirely concentrate israel 75 percent jewish united states percent percent globally 0.2 percent refer jewish people sabbatian interloper fraction fraction sobering thought think fantastic influence world affair tiny israel project new america century pnac lay blueprint september 2000 america war terror regime change war iraq libya syria found dominate sabbatians know neocons document concede plan support politically publicly major ajack american soil problem reaction solution excuse send troop war middle east sabbatian neocons say process transformation war regime change likely long absent catastrophic catalysing event like new pearl harbor month later produce document come power inane puppet george bush long- time sabbatian bush family include sabbatian dick cheney officially vice president de facto president entirety bush government month ağer bush inauguration come bush call time pearl harbor 21st century typical sabbatian timing symbolism 2001 60th anniversary ajack 1941 japanese air force pearl harbor hawaii allow president franklin delano roosevelt united states sabbatian- instigate second world war say election campaign evidence overwhelming roosevelt military intelligence network know ajack come stop sure america essential naval ship hawaii time thousand americans die pearl harbor ajacks september 11th 9/11 year 2001 sabbatians widely infiltrate government military intelligence operation compartmentalise asset pull off al qaeda ajack read trigger blow mind ujerly staggering concentration jewish operative sabbatian infiltrator essential position political security legal law enforcement financial business power ağer ajack happen carry cover track mean staggering think 0.2 percent world population percent americans jewish sabbatian infiltrator fraction central foundation 9/11 conspiracy

hijacking government military air force intelligence computer system real time door access possible israeli sabbatian cyber security soğware sabbatian control

door access possible israeli sabbatian cyber security soğware sabbatian control israel way rival silicon valley domination cyberspace dominant force cyber security give access entire computer system passcode world add zionists head officially silicon valley giant like google larry page sergey brin google- own youtube susan wojcicki facebook mark zuckerberg

sheryl sandberg apple chairman arthur d. levinson ultra zionist hedge fund billionaire paul singer $ 1 billion stake twiĵer nominally head ceo pothead jack dorsey cable news host tucker carlson say dorsey debate medical community drop ton acid permanent effect think debate end carlson comment ağer dorsey tell hearing capitol hill cut bullshit believe free speech long get decide hear big name silicon valley man woman global cult sabbatians true controller corporation wonder people company ferociously censor ban people like expose aspect cult agenda especially truth covid hoax sabbatians orchestrate jeffrey epstein paedophile ring sabbatian operation officially jewish sabbatian woman abuse ring tell high number jewish people involve epstein horror sabbatian wriĵen match perfectly modus operandi obsession sex ritual epstein run sabbatian blackmail ring famous people political influence provide young girl sex filme record hidden camera microphone new york house caribbean island property epstein survivor describe surveillance system go public famous politician figure know video tend tell get ball heart mind follow sabbatians use blackmail technique wide scale world entrap politician need act demand epstein private plane infamous lolita express know passenger include bill clinton bill gates flown epstein plane meet year ağer epstein jail paedophilia subsequently meet time epstein home new york accord witness epstein infamous kick ghislaine maxwell daughter mossad agent ultra zionist mega crooked british businessman bob maxwell time own daily mirror newspaper maxwell murder sea boat

1991 sabbatian control mossad liability business empire collapse mossad operative confirme trigger money money money funny money come sabbatian connection president lay crucial importance sabbatians control banking finance sabbatian mayer amschel rothschild set dominate arena family quest total global control freedom effect choice choice free few choice enslave global structure create century sabbatians big decider restrictor choice money world ask people like money idea global elite multi- billionaire describe greedy true level control money primarily greed control sabbatians seize control finance suck wealth world hand population talk ağer one- percent wealthy lot few possible money scam outrageous vast rightly call scam scam found create money loan interest population money call credit sabbatians assert control government banking completely century secure financial law allow bank lend hugely deposit confidence trick know fractional reserve lending imagine lend money exist charge recipient interest mansion private jet malibu monaco bank require fraction deposit wealth vault allow lend money call credit bank loan succeed banker real wealth account type account agree loan £ 100,000 wealth exist non existent fresh- air create credit exist theory credit back wind buying power people think buying power accept return property good service describe situation like cartoon character chase run edge cliff run forward fresh air look realise happen crash ravine foundation sabbatian financial system stop people look periodic moment want crash system 2008 2020 ongoing reap reward property business wealth borrower sign collateral return loan fresh air people think money create government come existence start debt bank lend illusory money call credit yes currency exchange debt day issue interest bear loan government create money interest free lend people interest free government control sabbatians financial system control sabbatians interest free money nightmare come true sabbatians underpin financial domination

global network central bank include privately own federal reserve britain bank england orchestrate privately own central bank coordination body call bank international seĵlements basle switzerland create usual suspect include rockefellers rothschilds central bank chief

answer government people answer bank international seĵlements word global cult dominate today sabbatians constituent scam overall banking scam loan thin air credit loan theoretically bring circulation add circulation pay principle plus interest additional interest create mean loan shortfall money circulation borrow pay close money circulation repay outstanding public private debt include interest coldly weave fabric system certainty lose home business possession banking lender obvious time boom money circulation debt expand people want geĵe loan downturn come money supply contract painfully obvious money service debt interest obvious time boom money circulation debt expand people want geĵe loan downturn come money supply contract painfully obvious 2008 currently money service debt interest sabbatian bankster lead human population calculated series boom debt incur bust debt repay bank debtor tangible wealth exchange non existent credit bust sabbatian banker absorb world tangible wealth end percent government bankruptcy level debt system own system control federal reserve america central bank privately own american president nominally appoint chairman woman maintain illusion arm government fed cartel private bank hand billion associate friend ağer crash 2008 sabbatian- control manipulate 1913 covert trickery rothschild banking agent jacob schiff

paul warburg sabbatian rockefeller family jewish population percent globally 0.2 percent sabbatian interloper remember far small ultra zionist head federal reserve 31 year 1987 2018 form alan greenspan bernard bernanke janet yellen biden treasury secretary yellen deputy chairman israeli- american duel citizen ultra zionist stanley fischer governor bank israel ultra zionist fed chief span presidency ronald reagan republican father george bush republican bill clinton democrat boy george bush republican barack obama democrat add pre greenspan chairman paul adolph volcker appoint jimmy carter democrat run fed 1979 1987 carter reagan administration greenspan take volcker long time associate business partner rothschilds maĵer party officially power united states economy direct force member obama trump biden administration common theme barack obama democrat ultra zionist robert rubin larry

summers timothy geithner run treasury clinton administration reappear obama ultra zionist fed chairman alan greenspan manipulate crash 2008 deregulation jump ship disaster way ultra- zionist bernard bernanke hand trillion sabbatian big fail bank business include ubiquitous ultra zionist goldman sachs ongoing staff revolve door operation major financial position government worldwide obama inherit fallout crash take office january 2009 fortunately support ultra zionist white house chief staff rahm emmanuel son terrorist help bomb israel 1948 ultra- zionist senior adviser david axelrod chief strategist obama successful presidential campaign emmanuel later mayor chicago senior fundraiser strategist bill clinton example sabbatian policy ağer israel establish migrate insider family america child bear american citizen obama choose financial team administration respond sabbatian instigate timothy geithner ultra zionist treasury secretary jacob j. lew treasury secretary larry summers ultra zionist director white house national economic council paul adolph volcker rothschild business partner chairman economic recovery advisory board peter orszag ultra zionist director office management budget oversee government spending

penny pritzker ultra zionist commerce secretary jared bernstein ultra zionist chief economist economic policy adviser vice president joe biden mary schapiro ultra zionist chair securities exchange commission sec gary gensler ultra- zionist chairman commodity futures trading commission cftc sheila bair ultra zionist chair federal deposit insurance corporation fdic karen mills ultra zionist head small business administration sba kenneth feinberg ultra- zionist special master executive bail compensation feinberg appoint oversee compensation string 9/11 victim family campaign stop have day court question official story time ultra- zionist bernard bernanke chairman federal reserve ultra zionist allegiance sabbatian control israel obama government obama big corporate donor ultra zionist goldman sachs employ administration donald trump republican trump claim outsider come drain swamp embark goal immediately appoint ultra zionist steve mnuchin goldman sachs employee 17 year treasury secretary include gary cohn ultra- zionist chief operating officer goldman sachs first director

national economic council chief economic adviser later replace larry kudlow ultra zionist trump senior adviser year white house sinister son law jared kushner life long friend israel prime minister benjamin netanyahu kushner son convict crook pardon trump day office ultra zionist trump administration include stephen miller senior policy adviser avrahm berkowitz deputy adviser trump senior adviser jared kushner ivanka trump adviser president convert judaism marry jared kushner david friedman trump lawyer ambassador israel jason greenblaĵ trump organization executive vice president chief legal officer special representative international negotiations israeli palestinian conflict rod rosenstein

deputy aĵorney general elliot abrams special representative venezuela iran john eisenberg national security council legal adviser deputy council president national security affairs anne neuberger deputy national manager national security agency ezra cohen watnick acting secretary defense intelligence elan carr special envoy monitor combat anti semitism len khodorkovsky deputy special envoy monitor combat anti semitism reed cordish assistant president intragovernmental technology initiatives trump vice president mike pence secretary state mike pompeo christian zionists vehement supporter israel goal ambition donald free speech believer trump pardon number financial violent criminal ignore call pardon julian assange edward snowden crime reveal highly relevant information government manipulation corruption widespread illegal surveillance american people security agency good know trump freedom justice mega criminal allegiance sabbatian control israel include pardon israeli spy jonathan pollard jail life 1987 espionage act aviem sella mossad agent recruit pollard pardon trump assange sit jail snowden remain exile russia sella fle help escape israel 1987 extradite despite charge espionage act trump white house statement say sella clemency support benjamin netanyahu ron dermer israel ambassador david friedman ambassador israel miriam adelson wife lead trump donor sheldon adelson die shortly friend jared kushner pardon sholom weiss believe serve long white collar prison sentence 800 year 2000 sentence commute ponzi schemer eliyahu weinstein defraud jews $ 200 million mention assange

snowden ignore right trump give sabbatians ask military political support move embassy tel aviv jerusalem critical symbolic literal implication palestinian statehood deal century design jared kushner david friedman give sabbatian israeli government green light substantially expand widespread program build illegal jewish seĵlement occupied land west bank state solution impossible seize land potential palestinian homeland plan 1948 1967 arab control gaza strip west bank sinai peninsula syrian golan heights occupy israel talk talk road map delay buy time west bank physically occupy israeli

real estate trump monumentally ill inform idiot plan help complete trump administration way kushner administration mean netanyahu administration mean sabbatian administration understand oppose cult fascism form gravitate trump crucial sabbatian plan deal chapter joe biden democrat barely cognitive joe biden take presidency january 2021 fellow shell vice president kamala harris late sabbatian gofer enter white house name door change party force remain zionists appoint stream pivotal area relate sabbatian plan policy include janet yellen treasury secretary head federal reserve ultra zionist run treasury ağer mnuchin trump lew geithner obama summers rubin clinton anthony blinken secretary state wendy sherman deputy secretary state biden sabbatian foreign policy sort jeff zients white house coronavirus coordinator rochelle walensky head centers disease control rachel levine transgender deputy health secretary covid hoax policy control merrick garland aĵorney general alejandro mayorkas secretary homeland security cass sunstein homeland security responsibility new immigration law avril haines director national intelligence anne neuberger national security agency cybersecurity director note cybersecurity david cohen cia deputy director ronald klain biden chief staff rahm emanuel eric lander leading geneticist office science technology policy director smart grid synthetic biology agenda jessica rosenworcel act head federal communications commission fcc control smart grid technology policy electromagnetic communication system include 5g.

pivotal position hold percent american population 0.2 percent world population administration ağer administration maĵer president party coincidence course sabbatians build colossal global web interlock anti- hate hate group condemn ask glare question anti semite way jewish people horrifically abuse sabbatian back nazi germany exploit end stomach turn disgusting word sabbatian manipulation reverse role republicans democrats happen britain conservative labour parties republicans conservatives label right democrats labour leğ look policy position democrat labour leğ move right republicans conservatives banner woke cult create far right tyranny democrat labour leğ defend free speech human right seek delete say early despite covid fascism jackboot johnson conservative government uk labour party leader keir starmer demand extreme measure labour party publicly absorb sabbatians ağer political medium onslaught previous leader weak inept jeremy corbyn allegation anti semitism party plan clear anti semite propaganda require response swiğ decisive fuck off corbyn statement expose anti semitism industry sabbatian aĵempt silence labour criticism

israeli government sabbatians purge party dissent extreme ultra zionism sabbatians instead corbyn party fall knee appease abuser definition impossible appease demand lead new demand appease takeover complete like fuck off effective policy great effect year sabbatians case time consider fact great compliment way outcome labour party capitulation sabbatian control conservative party oppose sabbatian control labour party party sabbatian state hurtle extreme tyranny sabbatian cult agenda america situation labour keir starmer spend day knee tongue point tel aviv guess jerusalem boris johnson anti semitism czar form labour mp john mann keep starmer company prayer mat sabbatian influence see jewish member labour party eject criticism israel include family suffere nazi germany sabbatians despise real jewish people target harshly difficult dub anti semitic desperation try pushbacker sting realize easy mind manipulate remain puppet game use presidency trump biden manipulation party state play illusion political choice world presidency face different apparently odd term direction policy renegade mind see obvious focus outcome consequence image word waffle cult embark

campaign divide america blindly support agenda mentality know woke push cult sabbatians want present infinite possibility divide rule population seĵe war allow perceptual ring fence demonisation encircle pushbackers modern version liĵle big horn 1876 american cavalry lead lieutenant colonel george custer draw trap surround kill native american tribe defend land thousand year seize government modern version role reverse defend sabbatian government surround government seek destroy trap set year ago explain return 2016 emergence donald trump candidate president united states set overcome good 20 candidate republican party primary consider early stage prayer live white house republican party say great reservation trump win nomination know american politics work politic general way trump party candidate sabbatian control neocons run republican party want happen see proof email document public wikileaks democratic party hierarchy democons systematically undermine campaign bernie sanders sure sabbatian

party hierarchy democons systematically undermine campaign bernie sanders sure sabbatian gofer hillary clinton win nomination presidential candidate democons neocons republican party derail trump way stage begin conclude trump choose president case preĵy clear goal divide america cult agenda support wokers pushbackers gravitate trump tell want hear constituency support increasingly ignore voiceless decade profoundly year sabbatian puppet barack obama speak language pull incessant globalisation political economic power exporting american job china american sabbatian corporation deletion free speech mass immigration policy devastate job opportunity urban work class race american heartland midwest beware forked tongue people collectively sigh relief political leader apparently trait renegade mind look hard people tell want hear tell obviously say early people wish want hear true genuine likely believe say want want true sale people teach skilled elicit calculated question customer want hear repeat opinion target like trust asset cult sale people sense sell perception read cult manipulation play long expand game fall vaudeville party politic american party vehicle cult exploit different way depend agenda require moment trump republicans focus divide america

isolate pushbacker open way biden presidency extreme american history advance blown woke cult agenda aim destroy silence pushbackers label nazi trump supporter white supremacist sabbatians want trump office reason describe ultra zionist saul alinsky 1909 1972 promote woke philosophy community organising long hear day go traditional marxism reason manipulate trump phenomenon lay alinsky 1971 book rules radicals blueprint overthrow democratic regime replace sabbatian marxism surprisingly list evident sabbatian french russian revolutions china relevant chapter covid hoax alinsky follower deeply corrupt barack obama house speaker nancy pelosi hillary clinton describe hero sabbatian stooge pelosi personify arrogant corrupt idiocy widely front cult inner core predictably sabbatian advocate light bringer alinsky feature lucifer dedication page book original radical gain kingdom earth shall alinsky

golden radical rule pick individual focus aĵention hatred blame target faceless bureaucracy corporation rules radicals sabbatian handbook content repeatedly employ world century sabbatians bring power designer villain individual aĵention hatred blame bestow question trump know manipulate bit suspect alinsky trump technique man die 1972 technique span history pick target freeze personalize polarize try attack abstract corporation bureaucracy identify responsible individual ignore attempt shift spread blame moment trump come illusory power republican policy opinion trump present negative derogatory abusive term sabbatian dominate medium lead cult operation cnn msnbc new york times jeff bezos own washington post pick target freeze personalize polarize trump turn demon vilifie hate demi god love worship turn supporter present equally demonic preparation punchline later line biden office trump trump trump trump virtually news story happening filtere lens donald love hate choose say define satan spawn paragon virtue support trump policy statement assault character shade grey allow black white literally figuratively californian know head uĵerly scramble hatred trump tell people love totally consume trump derangement syndrome know glaring contradiction occur definition criticise trump praise opponent hero lady describe joe

biden kind honest gentleman provable liar mega crook vicious piece work boot sabbatians divide america trump fall guy clock tick consequence supporter hock master trump give sabbatians israel want year ask shall receive dynamic benjamin netanyahu orchestrate trump ultra- zionist son law jared kushner ultra zionist ambassador israel david friedman ultra zionist israel adviser jason greenblaĵ.

central running protect collapse business empire trump organisation colossal business failure forever beholding sabbatian network bail start 1990 trump owe $ 4 billion bank pay $ 1billion personally company mega- disaster result build new casino atlantic city buy enormous taj mahal operation lead crippling debt payment borrow fantastic sum 72 bank major sabbatian connection scale debt live tent alongside highway foreclose plan devise liğ trump mire bt securities corporation rothschild inc. case handle wilber ross work rothschilds 27 year ross name commerce secretary ağer trump election crucial figure save trump ultra- zionist investor carl icahn buy taj mahal casino icahn special economic adviser financial regulation trump administration stay long manage find time tidy sum reported $ 31.3 million sell holding affected price steel day trump impose 235 percent tariff steel import amazing bit luck people trump sabbatian operative long close association mentor legal adviser early 1970 1986 dark genetically corrupt ultra- zionist roy cohn chief counsel senator joseph mccarthy communist witch hunt 1950s esquire magazine publish article cohn headline mess roy cohn describe feared lawyer new york ruthless master dirty trick mafia don speed dial cohn influence contact support protection trump man sabbatians new york connection cohn criminal employer russian sabbatian mafia israel centric medium mogul rupert murdoch introduce trump cohn start long friendship cohn die 1986 week ağer disbar unethical conduct appellate division new york state supreme court wheel justice run slow give length cohn

crooked career ask believe donald trump fundamental connection sabbatian network operative lead fight stop sabbatian agenda fascistic control america world sure man entrap

year white house sabbatian operative big financial donor casino billionaire sheldon adelson sabbatian dna oh come trump divide america isolate pushbackers cult agenda heading trump supporter insurrectionist white supremacist intelligence mossad psyop psychological operation know qanon emerge trump year central pillar sabbatian campaign lead pushbackers trap set wish destroy know start qanon scam see scenario time 30 year different name wriĵen particular book reaction qanon come fore script pull year new add leĵerhead story take form insider good guy government- intelligence military deep state apparatus go instigate mass arrest bad guy include rockefellers rothschilds barack obama hillary clinton george soros etc etc date give good guy go date pass incident new date give pass incident central message pushbackers case plan go sort good guy inside trust plan qanon mantra plan misdirect pushbacker puĵe trust psyop believe real beware beware tell want hear check right biden inauguration qanon claim storm come trump stay president biden crony arrest jail go happen course happen result provide punchline sabbatian january 6th 2021 big crowd trump supporter gather national mall washington dc capitol building protest believe widespread corruption vote fraud stop trump elect second term president november 2020 support trump biden evidence clear major vote-fixing go favour biden man cognitive problem advanced oğen hardly string sentence read word wriĵen teleprompter glare ballot discrepancy include question electronic voting machine vote rigging comparative cinch hundred thousand paper vote suddenly appear advanced vote count virtually biden early trump lead crucial swing state suddenly begin close disappear pandemic hoax excuse issue limitless number mail ballot check establish recipient alive live address send stream people ask private organisation employ gather ballot know turn count american election system

organisation employ gather ballot know turn count american election system manipulate decade sick joke hole swiss cheese express purpose dictate result criminal manipulation information sabbatian tech giant like facebook twiĵer google own youtube delete pro trump anti biden account post support biden leğ sabbatians want biden win ağer dividing america

time woke aspect cult agenda extreme silicon valley bias include block information new york post expose biden scandal end bid president final week campaign hunter biden monumentally corrupt son report send laptop repair local store fail return time pass laptop property store non payment bill owner see hard drive give copy fbi confirme widespread corruption joe biden family political position especially vice president obama multiple million country world notably ukraine china hunter biden time business partner tony bobulinski go public story break new york post confirm corruption see joe biden know go profite spoil million hand chinese company close connection like major business china chinese communist party president xi jinping joe biden boast meeting cult world economic forum vice president order government ukraine fire prosecutor mention man happen investigate energy company hunter biden corrupt portfolio company pay big buck reason influence father overnight biden presidential campaign give lie entire sabbatian own mainstream medium sabbatian- own silicon valley suppress circulation story go mighty way rig election 2020 cult asset like mark zuckerberg facebook spend hundred million support biden vote administration cult trump focus divide america desperate bring moronic pliable corrupt biden complete double whammy way go let liĵle thing like people thwart plan silicon valley widely censor claim election rig rig reason claim rig denounce white supremacist include pathetically republican politician willing right medium claim mention describe false claim excuse journalist research subject whatsoever trump win seven million vote siĵe president achieve cognitively challenge soon 78 year old hide away public

achieve cognitively challenge soon 78 year old hide away public campaign manage win vote presidential candidate history make sense election rally candidate witness enthusiasm trump apathy biden ten thousand aĵend trump event biden speak car park oğen television crew aĵende frame shot hide fact pathetic footage come light biden stand podium make speech tv crew party fixer read word wriĵen massive teleprompter screen yes protestor

january 6th point election rigging walk trap lay washington cult deep state qanon psyop capitol hill riot ludicrously dub insurrection spider fly renegade minds know side politic cult work side stage puppet direct perception population focus diversion like party candidate miss puppeteer hand hold string capitol hill insurrection bring liĵle big horn having create distinct opposing grouping woke pushbackers trap spring pushbacker encircle isolate associate public mind trump label trump sort confederate leader know immediately capitol riot set thing easy rioter get building virtually credible resistance secondly covid hoax west start 2020 cult exploit situation agenda forward great speed experience cult technique activity 30 year show exploit situation create happen event fundamental agenda significance time major event give cultist excuse rapidly advance plan find manipulate specific reason provide excuse problem- reaction solution tiny minority huge crowd washington protestor seek gain entry capitol smash window breach door maĵer crowd pushbacker support trump go lump dangerous insurrectionist conspiracy theorist laĵer term come widespread use cia memo 1960 aim discredit question nonsensical official story kennedy assassination subsequently widely employ medium inept journalist idea origin discredit question authority claim true perpetrate conspiracy need discredit word dictionary definition conspiracy merely activity secretly plan people bad illegal general agreement silent subject purpose keep secret basis conspiracy look obvious reason cult lapdog medium claim conspiracy word appear state law conspiracy defraud murder corrupt public moral agent provocateur widely cult deep state manipulate genuine people act way suit desire outcome genuine case mean protestor genuinely support trump claim election steal agent state wear garb trump supporter qanon pump prime capital riot genuine trump supporter naively fall describe situation come parlour say spider fly leaflet appear woke paramilitary arm antifa anti fascist fascist call supporter turn washington look like trump supporter hate arrest breach capitol building source antifa stable

trump supporter hate arrest breach capitol building source antifa stable mate black lives maĵer organisation fund cult billionaire corporation man charge riot accord lawyer fbi agent

hold secret security clearance

40 year aĵorney thomas plofchan say client 66 year old thomas edward caldwell hold secret security clearance 1979 undergo multiple special background investigations support clearance retire navy work section chief federal bureau investigation 2009 2010 gs-12 form operate consult firm perform work classified u.s government customer include drug enforcement agency department housing urban development coast guard army personnel command judge later release caldwell pende trial absence evidence conspiracy try force way building new york post report law enforcement source say know antifa member spoĵe camera trump supporter riot rioter arrest john earle sullivan seriously extreme black lives maĵer trump hater utah previously arrest charge july 2020 blm antifa riot driver threaten shoot sullivan founder utah-base insurgence usa affiliate cult create and- fund black lives maĵer movement footage appear delete twiĵer trump supporter call antifa infiltrator group filme change pro trump clothing riot security building pathetic plan colonel leroy fletcher prouty man long experience covert operation work security apparatus describe tell tale sign identify involve assassination say direct assassination happen active role play secretly permit happen great single clue power reduce usual security precaution principle apply situation certainly capitol riot january 6th 2021 big potentially angry crowd know gather near capitol security apparatus major police detail defend building national guard troop standby give strength feeling people arrive america encourage qanon psyop statement donald trump instead capitol police security flimsy weak easily breach number officer deploy regular day blatant red flag staffe equip possible riot obvious possibility circumstance protective effective fencing worth place contingency plan thing basically case stand aside wave people inside police back off apart capitol police officer ridiculously shoot dead unarmed air force veteran protestor ashli babbîĵ warning climb broken window investigation refuse charge officer ağer surely consider murder circumstance

liğe carpet sweep story endlessly repeat five people die armed insurrection report rioter

weapon apart babbiĵ die heart aĵack stroke apparently drug overdose capitol police officer brian sicknick report die ağer bludgeon fire extinguisher alive ağer riot die later washington medical examiner office say stroke sicknick external injury lie deliver like rapid fire narrative build incessant repetition lie lie accepted everybody know truth big lie technique nazi propaganda minister joseph goebbels constantly cult nazis today covid climate change hoax goebbels tell lie big repeat people eventually come believe lie maintain time state shield people political economic and/or military consequence lie vitally important state use power repress dissent truth mortal enemy lie extension truth great enemy state protestor free run capitol building allow picture take rioter iconic part building include senate chamber propaganda image pushbackers congresswoman describe scene bad kind non security anybody imagine first true obviously imagine sure happen photograph widely circulate feature people wear qanon symbol psyop dub qanon follower ubiquitous fit label white supremacist insurrectionist muslim extremist call noah green drive car police officer capitol building kill april 2021 political medium hysteria disappointed white government prosecutor michael sherwin aggressive dark eyed professional roĵweiler lead investigation understate reality thousand fold hundred track arrest crime have wrong political view people jail walk building commiĵe violence damage property take picture leğ. label threat republic biden sit white house sign executive order wriĵen dismantle republic judge rule mother son jail government keep arrest badly beat prison guard

washington lawyer man say suffere fracture skull blind eye woman shoot dead reason capitol police officer allow know mind happen cult qanon trump sting identify isolate pushbacker target road crush delete resounding success think russians invade building gunpoint line senator firing squad political medium reaction congresswoman alexandria ocasio cortez child woman body terrible- twos woker narcissist proportion word meaning say think go die insurrectionist bang office door turn capitol building riot happen banging capitol police officer refer survivor insult true survivor violent sexual abuse live pampered privileged life talk drivel

living woke colleague fellow mega- narcissist rashida tlaib break describe devastating effect building rioter ocasio cortez tlaib member fully woke group congresswomen know squad ilhan omar ayanna pressley squad identifie vehement anti white racism anti white man agenda case absence brain cell active usual suspect riot case immediately form democrat ultra zionist senator operative chuck schumer adam schiff demand trump impeach insurrection pair prat lead fail impeachment trump invent russia collusion nonsense claim russia help trump win 2016 election realise tel aviv relocate outside moscow find date map russia hoax sabbatian operation trump occupied impotent stop rapport russia cult want retain perceptual enemy pull puppet biden begin aĵacke russia come office cult seek upheaval division war world year stage russia collusion inquiry head bright 9/11 fbi chief robert mueller support 19 lawyer 40 fbi agent plus intelligence analyst forensic accountant staff devour ten million dollar find evidence russia collusion year old tell day moronic schumer schiff want second impeachment trump capitol insurrection riot arrest development schumer call pearl harbor compare 9/11 3,000 die case cnn rwandan genocide 1990 estimate 500,000 600,000 murder 250 000 500,000 woman rape population town hack death machete comparison purely cult political reason insult suffere lose life confirm callous inhumanity deal schumer

monumental idiot schiff serve cult agenda tell look ağer talk idiot inane man span russia capitol impeachment aĵempt senator eric swalwell nerve accuse trump collusion russians sleep chinese spy call christine fang fang fang straight bond film doubt star klaus schwab bloke live secret island control laser weapon position space point world capital fang fang play bond infiltrator girlfriend sure enjoy share bed brainless swalwell lie think china fbi eventually warn swalwell fang fang give time escape chinese dictatorship thoughtful second trump impeachment fail hardly surprising impeachment suppose remove siĵe president time happen trump long president people run country america officially terrifying outcome tell story outcome outcome renegade minds focus word vicious hysterical obviously pre planned assault launch pushbacker censor silence discredit target right earn living condemn domestic

terrorist need treat like al qaeda islamic state domestic terrorist label cult try stick period oklahoma bombing 1995 blame far right domestic terrorist read trigger bombing clearly problem reaction solution carry deep state bill clinton administration corrupt dictionary definition term nearly suffice nearly 30 000 troop deploy america street washington biden inauguration thousand stay pretext protect capital insurrectionist psychological programming normalise use military domestic law enforcement support cult plan police military state biden fascist administration begin purge wrong thinker military mean board woke capitol building surround fence razor wire land free symbolically literally dismantle circle complete installation biden exploitation qanon psyop america divided civil war 19th century pushbackers isolate dub terrorist go happen cult immediately set delete liĵle leğ freedom transform american society swish hand controlled president american history lead officially extreme regime country declare independent state july 4th 1776

biden issue undebated dictatorial executive order hour opening day office spectrum cult wish list include dilute control border mexico allow thousand migrant illegally enter united states transform demographic america import election change number perceive democrat voter biden deportation amnesty illegally resident estimate high 20 30 million bill congress award american citizenship prove work agriculture 180 day previous year big ag secure slave labour long term plan add new state union puerto rico make washington dc state part plan ensure cult own woke democrats permanently power border border expose detail book mass immigration united states europe work cult network fuel ten billion spend end george soros global open society open border foundations impact see america population increase 100 million liĵle 30 year immigration write answer plan people cross southern border number unstoppable cult own biden el salvador central america put scale happen context population live united states illegally way methodology crush central south american country economically spread violence machete wield psychopathic gang like ms-13 base el salvador operate american city biden impose lax security southern border mean open say election want

surge border president green light people ağer election day create human disaster follow america migrant surge come imbecilic alexandria ocasio cortez say surge child insurgent term surge biden claim white supremacist disingenuous lady day enter realm basic intelligence will time soon sabbatians cult process destroy america import violent people gang genuine terrorise american city overwhelm service cope sheer volume new arrival similar happen europe western society general target demographic cultural transformation upheaval plan demand violence crime create environment intimidation fear division soros fund election district aĵorney america stop prosecute crime reduce sentence violent crime free violent criminal sabbatians create chaos order order respond classic problem reaction solution freemasonic moto say ordo ab chao order chaos cult constantly create chaos impose

ordo ab chao order chaos cult constantly create chaos impose new order reason cult constantly create chaos covid hoax see enter united states plane force covid test migrant floode southern border processing facility way mass migration mean ignore government covid rule know bullshit pushback denounce racist wokers sabbatian front like ultra zionist anti defamation league head appalling jonathan greenblaĵ time argue israel citizenship voting right palestinian arabs jewish population truth sabbatian network lose control country biden master declare country like el salvador dangerous people allow united states humanitarian reason few murder large part central american country city like baltimore central america dangerous place cult control american government make way dismantling economy long term plan drive people north united states part central america dangerous area story greatly exaggerate justify relax immigration criterion migrant offere free healthcare education united states incentive head border requirement financially independent enter prevent resource america drain blame migrant seek believe beĵer life play cult dark nefarious end number biden take office huge february 2021 100,000 people know try enter illegally southern border 34,000 month 2020 march 170,000 418 percent increase march 2020 number know people one unseen true figure migrant illegally cross border single month estimate congressman 250,000

number rise biden

current policy gang murder drug run thug control mexican border demand money thousand dollar let migrant cross rio grande america time gun baĵle break border time week rival mexican drug gang operate globally equip sophisticated military grade weapon grenade armoured vehicle capitol building protect non existent threat thousand troop deploy time cult neocon war afghanistan southern border america leğ fate incompetence cold calculation march 2021 17,000 unaccompanied child hold border facility ensnare people trafficker paedophile ring rape journey north america conjecture fact designate child reality teenage boy old wokers posture self purity encourage poor tragic people come america face nightmare journey border disgusting figure house speaker nancy pelosi give disingenuous speech care migrant woman evil woker condemn trump have child cage border obama shhhh sleep floor access shower border facility 729 percent capacity biden insanity propose flye migrant southern border northern border canada processing shambles oversee ultra zionist secretary homeland security moronic liar alejandro mayorkas ban news camera border facility stop americans see happen mayorkas say ban news crew allow film alongside homeland security ultra zionist cass sunstein appoint biden oversee new immigration law sunstein despise conspiracy researcher point suggest ban tax have view man bonker perfectly adjust adjust question criticise happen white supremacist early non white immigrant oppose number effect life opportunity black people poor area particularly damage uncontrolled immigration increase competition work opportunity work lose voting power hispanics dominant black area downward spiral billionaire policy drone care black people racism compassion migrant black people wind air migrant instead mercilessly exploit transform america country leave lose future true europe mass immigration work woke

democrats trace 1986 immigration reform control act sign law republican hero president ronald reagan give amnesty million live united states illegally incentive people head southern

border party state work save syndrome aspect expose cult agenda display first day biden silencing pushbacker forefront renegade mind view trump year qanon different light supporter advocate dot connect qanon trump psyop give cult look know liĵle trump realise issue pincer movement produce desire outcome divide america have pushbacker isolate turn look new route empowerment include handing power people group save syndrome want see work human history qanon trump psyop late incarnation alongside religion obvious expression people look god priest save tell save save politician like trump politics diversion saviour means block positive change possible save syndrome come repeat theme hand power believe save real saviour stare mirror morning renegade mind constantly vigilant regard ask question gandhi right say change want world people wait present constant rağ reason concede power forget real power humanity number cult use diversion division target unstoppable power come unity religion government politician corporation medium qanon different manifestation power- diversion dilution refuse power government instead hand trump qanon new direction merely recycle old new name poster explore phenomenon proceed break cycle recycle get mist repeat perception repeat history shall turn potent example entire human story consequence follow power away talk course covid hoax covid calculated catastrophe fact threaten invest fraud e easily unravel real reason covid pandemic hoax employ renegade mind methodology outline far start compare long plan cult outcome covid pandemic outcome know outcome journey highlight plan hunger games society book year control ongoing dependency create dependency essential destroy independent livelihood business employment population reliant state cult basic life guarantee piĵance income independence income remain cult ambition thwart knowledge easy pandemic hoax go talk lockdown begin closing perceive essential business

pandemic hoax go talk lockdown begin closing perceive essential business save allege deadly virus cult corporation like amazon walmart naturally consider essential mom pop shop store door close fascist decree result new lockdown new regulation small medium large business

own cult go wall cult giant frontman woman grow financially faĵ second mom pop deny income right earn living wealth

people like jeff bezos amazon mark zuckerberg facebook sergei brin larry page google alphabet reach record level cult increase power dramatic concentration wealth competition destroy bring state dependency lockdown instigate secure end health brother paul spend 45 year build bus repair business lockdown mean bus run fraction normal level month end similar story tell hundred million worldwide effort lifetime coldly destroy cult multi billionaire lackey government law enforcement continue earn living taxation people deny right people earn theirs different make enforce decision face financial hardship affecte gates hell psychopathic figure cult operative bill gates puppet tedros world health organization declare covid pandemic march 2020 change definition pandemic 2009 month declare swine flu pandemic previous definition apply covid definition include infection infectious agent occur simultaneously different country significant mortality rate relative proportion population infect new definition remove need significant mortality pandemic fraudulent definition gates demand economy destroy lockdown school closure social distancing mandatory mask vaccination man woman child planet severe consequence restriction refuse give power daddy tell psychopathic missus smile say bad come know plan come gates respond maĵer fact way psychopath question effect world will zero shrink

global gdp probably go big hit gates smile say lifetime great economic hit choice people act choice people feel like go stadium infect people deeply affect see stat know transmission chain old people parent grandparent affect ignore go ability open particularly rich country thing month world large normalcy return largely vaccinate entire population man compassion empathy psychopath like cult player view seriously mentally ill look eye crazy flailing arm world population start 2020 mentally ill extreme end psychopathic especially know shall case death covid fakery product monumental figure massaging stat gates refer base test test virus

know fortune big cult support infamously ruthless soğware salesman buy global control health death policy population affect have breathtaking outrage gates talk people deeply affected fear covid global network lie minute minute support lie medium seriously influence fund tune hundred million hand big sum medium operation include bbc nbc al jazeera univision pbs newshour propublica national journal guardian financial times atlantic texas tribune usa today publisher ganneĵ washington monthly le monde center investigative reporting pulitzer center crisis reporting national press foundation international center journalists solutions journalism network poynter institute media studies gates covid hoax man prison mental facility rest life money distribute take enormous psychopathic pleasure crush hunger games global structure demand police military state fusion force viciously impose cult population protect cult public rebellion regard covid hoax keep give oğen unlawful ridiculous contradictory covid rule regulation police world moronic automaton psychopath faceless face nappy mask act like nazi ss fascist blackshirt brownshirt hitler mussolini small departure rule decree psycho government clueless gofer jump face nappy fascist brutality public protestor soon commonplace girl woman old people brave man baton face nappies break peaceful protest hand fine like confeĵi

people earn living let pay hundred pound accepted human right robot face nappy noĵingham police english east midlands fine group £ 11,000 aĵende child birthday party decade chart transformation law enforcement genuine decent officer replace psychopath brain dead happily brutally master tell let loose public emphasise point happen step step change dynamic police public orchestrate shadow know go perceptual reframing level authority official administration training course organisation common purpose create late 1980s give massive boost blair era britain global phenomenon supposed public servant begin view population enemy true police start explosion behaviour manipulation organisation network prepare war human psyche unleash dawn 2020 detail later book core police desecrate beauty spot deter people gather arrest woman walk countryside far home arrogant clueless sergeant isle wight

police live post facebook insist population schoolmaster sergeant call radford look young ask mother know post expect people sergeant wilkinson boast fine lad meet mcdonald car park go lockdown takeaway wilkinson add cancel order pair prat people increasingly norm jackboot johnson yellowshirts know british police theme world police savagery common lockdown protest united states netherlands fascist state victoria australia tyrannical moronic premier daniel andrews amazing tyrannical moronic tend work team combination see america arrogant narcissistic woke governor mayor gavin newsom california andrew cuomo new york gretchen whitmer michigan lori lightfoot chicago eric garceĵi los angeles nazi stalin impression support compliant brutality enforcer uniform arrest small business owner

defy fascist shutdown order take jail ankle shackle handcuff happen bistro owner marlena pavlos hackney gretchen whitmer fascist state michigan police arrive enforce order state own judge puĵe community risk time state like texas drop restriction migrant pour southern border covid question sure officer appal order nearly truly appal month pass opportunity take military involve presence street familiar normal long term goal police military crucial element hunger games enforcement network encourage public report neighbour break lockdown rule group face £ 11,000 fine child birthday party dobbe

neighbour brain size pea technique famously employ stasi secret police communist east germany public informant place population police chief uk say force need carry covid patrol floode call public report people visit beach dorset police chief james vaughan say people enthusiastic snitch fellow human operate auxiliary arm police geĵe 400 report week public respond quick pick phone tell vaughan pillar tyranny complexion mean hugely extend reach enforcement spread report narcissistic isle wight sergeant radford wilkinson fail add link facebook post public inform fellow slave self aware realise imitate stasi hear government psychologist expose later lay policy turn community way coincidence yep knit fog know start alleged pandemic cult operation present limitless potential rapidly advance cult agenda

exploit manipulate fear demand man woman child planet vaccinate process human infuse self replicate synthetic material human cell remember plan transform human body biological synthetic biological state deal vaccine actually vaccine focus genetic agenda mass global vaccination justifie new virus set alarm ring ağer 30 year track people method covid hoax officially begin china big red flag reason explain agenda potential enormous dismiss idea virus appear naturally major happening major agenda implication occur cult involvement make happen question twofold early 2020 medium begin campaign induce global fear hysteria allege infectious agent release purpose cult exist situation sit observe wait evidence information march early april synchronicity strongly point direction virus go public derision swathe alternative medium voice scenario chinese government release virus league deep state element united states top- level bio lab wuhan virus say first appear look possibility buy reason death virus way match deadly bioweapon effective sell illusion infectious agent have real control injection lose control event virus give blank sheet paper like symptom mutant variant choose add real infectious agent limit actually phantom disease allow endless ludicrous study covid dollar widen perceive

phantom disease allow endless ludicrous study covid dollar widen perceive impact invent risk group include study say walk slowly time likely die virus people psychiatric ward real deadly bioweapon people hierarchy cult essential operation obviously want release real disease mean immediately lose control release illusory mean vital people extra careful deal want hear bioweapon unleash chinese laboratory collusion american deep state fit conspiracy narrative true far effective use excuse virus justify real bioweapon vaccine way disease agent transmiĵe arrive directly syringe see french virologist luc montagnier quote alternative medium say discover alleged new severe acute respiratory syndrome coronavirus sars cov-2 artificially include element human immunodeficiency virus hiv parasite cause malaria sars cov-2 allege trigger alleged illness call covid-19 remember montagnier research year claim hiv retrovirus cause aids claim demolish berkeley virologist peter duesberg show prove hiv cause acquire

immunodeficiency syndrome aids claim accept fact publicly medically proof whatsoever recur story profoundly apply covid despite lack proof montagnier team pasteur institute paris long dispute american researcher robert gallo discover isolate hiv virus evidence find cause aids later evidence virus cause disease thing virus way say exist claim isolate hiv virus present real context come

shocking story story sars cov-2 montagnier assertion identifie sars cov-2 genome hoax making pick covid story 2010 publication rockefeller foundation document call scenarios future technology international development inner circle rockefeller family serve cult john d. rockefeller 1839 1937 fortune standard oil know rockefeller bill gates day responsible establish refer big pharma global network pharmaceutical company outrageous profit dispense scalpel drug medicine obsess pump vaccine increase number human arm backside possible john d. rockefeller drive force creation education system united states specifically design program perception generation thereağer rockefeller family donate exceptionally valuable land new york united nations building central establish world health organization 1948 agency un create start trojan horse stalk horse world government enter bill gates family rockefellers long extremely close see genealogy claim far family fuse bloodline gates say bill melinda gates foundation inspire rockefeller foundation serve cult major tax exempt foundation overwhelmingly criminal enterprise cult asset fund cult agenda guise philanthropy avoid tax process cult operative mega rich role man woman psychopath inner core psychopath knowingly serve evil deal big percentage wealth glean represent cult spend advance ambition cult rockefeller foundation bill melinda gates foundation people like george soros global open society foundations spend billion pursuit global cult control gates global public face cult intervention world affair include big tech influence central role covid vaccine scam promotion climate change shakedown manipulation education geoengineering sky food control agenda big owner farmland america gmo promotion mean writer say gate monopolize wield disproportionate influence tech industry global health vaccine agriculture food policy

include biopiracy fake food weather modification climate technology surveillance education medium limitless wealth secure microsoğ allowed- fail venture include vaccine plough long long list cult project design enslave entire human race gates rockefellers work unit rockefeller establish world health organization lead global covid policy control gates mouth piece tedros

organization lead global covid policy control gates mouth piece tedros gates big funder trump announce american government cease donation biden immediately say restore money take office january 2021 gates foundation cult own limitless funding world health system major player globe covid hoax okay background return rockefeller foundation document 2010 head scenarios future technology international development imaginary epidemic virulent deadly influenza strain infect 20 percent global population kill million seven month rockefeller scenario epidemic destroy economy close shop office business lead government impose fierce rule restriction include mandatory wearing face mask body temperature check enter communal space like railway station supermarket document predict ağer height rockefeller- envisage epidemic authoritarian rule continue deal pandemic transnational terrorism environmental crisis rise poverty think rockefellers modern day seer alternatively likely know plan year fascism impose protect citizen risk exposure rockefeller scenario document say pandemic national leader world flex authority impose airtight rule restriction mandatory wearing face mask body temperature check entry communal space like train station supermarket pandemic fade authoritarian control oversight citizen activity stick intensify order protect spread increasingly global problem pandemic transnational terrorism environmental crisis rise poverty leader world take firm grip power notion control world gain wide acceptance approval

citizen willingly give sovereignty privacy paternalistic state exchange great safety stability citizen tolerant eager top- direction oversight national leader latitude impose order way see fit developed country heightened oversight take form biometric id citizen example tight

regulation key industry stability deem vital national interest develop country enforce cooperation suite new regulation agreement slowly steadily restore order importantly prophetic rockefellers 2010 year later come paper

global health summit beijing china government representative private sector international organisation group meet discuss 100 year global health rockefeller foundation fund paper call dream future health 100 year prophecy ensue describe dystopian future abundance datum digitally track link people mean death privacy replace physical interaction transient virtual connection generate isolation raise question value shape virtual network covid hoax preparation sequence come table simulation 2018 imaginary pandemic disease call clade x say kill 900 million people exercise organise gates fund johns hopkins university center health security united states university compile disgustingly systematically erroneous global figure covid case death similar johns hopkins health crisis scenario include dark winter exercise 2001 atlantic storm 2005 sheer predictive genius look prophecy watcher bill gates fund event 201 hold week coronavirus pandemic suppose break china event 201 base scenario global coronavirus pandemic melinda gates great man missus tell bbc prepare year coronavirus pandemic tell know nostradamugate predict ted talk 2015 pandemic come kill lot people demolish world economy god man machine possibly literally week real thing fund simulate scenario involve friend associate johns hopkins world economic forum cult klaus schwab united nations johnson johnson major bank official china centers disease control united states synchronicity johns hopkins compile fraudulent covid figure world economic forum schwab push great reset response covid centers disease control forefront covid policy united states johnson johnson produce covid vaccine officially start week later china spooky eh accurate create simulation virus pandemic real thing simulation event 201 exercise prepare happen rehearsal control know go happen shortly hour simulation post internet theme response mirror soon impose transform human society news story insert say commonplace week later prophecy perfection discussion focus need deal misinformation anti vax movement exactly

happen virus arrive say arrive west cult own social medium ban criticism exposure official virus narrative say virus

social medium ban criticism exposure official virus narrative say virus early april 2020 ban platform ağer include youtube facebook later twiĵer mainstream broadcast media britain effect ban interview tony blair create government broadcasting censor ofcom head career government bureaucrat melanie dawes appoint virus hoax play january 2020 time ickonic medium platform vimeo ultra zionist own operation player create delete instant hundred video documentary serie show confirm unbelievable vindictiveness copy course restore player ready people class sabbatian facebook promise free advertisement gates- control world health organization narrative delete false claim conspiracy theory stop misinformation allege coronavirus response see short early scenario event 201 extreme censorship absolutely crucial cult official story ridiculous unsupportable evidence survive open debate free-flow information opinion win debate cult approach history facebook liĵle boy man boy mark zuckerberg equate credible accurate information official source expose lie misinformation silence censorship dynamic event 201

norm army narrative support fact checker organisation entire reason tell public official narrative true expose lie appalling fact checker call newsguard found ultra zionist americans gordon crovitz steven brill crovitz publisher wall street journal executive vice president dow jones member council foreign relations cfr board american association rhodes scholars cfr rhodes scholarships name ağer rothschild agent cecil rhodes plunder gold diamond south africa master cult feature widely book newsguard like reason think censor discredit quote old british politician like savage dead sheep like censorship network connect fund organisation fund connect bill gates expect associate gates newsguard offshoot call healthguard fight online health care hoax kind newsguard european managing director anna sophie harling remarkably young- look woman broadcasting experience liĵle hand work journalism secure

position content board uk government broadcast censor ofcom executive organisation seek discredit dissident official narrative make decision government broadcast regulator content appalling fact checker fact fund george soros global censor google amazing activist fact checking anti hate arena turn government relate position people like uk labour party activist imran ahmed head center counter digital hate found people like morgan mcsweeney chief staff labour party hapless useless leader keir starmer digital hate use american spelling center betray connection transatlantic network similar organisation 2020 shapeshiğe aĵacke people hate aĵacke question covid hoax danger covid vaccine coincidence understand imran ahmed hysterical statement call anti vaxxer conspiracy theorist extremist group pose national security risk accuse prat understatement include parent vaccine ağer child damage life kill nice man ahmed round woke medium geĵe soğ ball question spineless journalist ask right campaign destroy freedom speech demand overrepresentation ofcom people connect narrative worship bbc incredible global network narrative support super vital covid hoax play light mega whopper lie defend spotlight cast basic intelligence set scene cult play long game proceed step step ensure place

scene cult play long game proceed step step ensure place major card play come big covid hoax psychopath handle event outcome certain liĵle possible preferably leğ chance politician government medical official follow direction bring illusory power advance cult web national stage like state governor mayor america decade dynamic officialdom law enforcement public change service control dictatorship behaviour manipulation network establish government wait impose come covid rule regulation specifically design subdue rewire psyche people guise protect health include uk behavioural insights team

own british government

cabinet office scientific pandemic insights group behaviours spi b web intelligence military

group seek direct conversation social media control narrative cyberwarfare people 77th brigade british military coordinate cabinet office civilian military leadership continue combine fusion doctrine 77th brigade british equivalent infamous israeli sabbatian military cyberwarfare internet manipulation operation unit 8200 expose length trigger carefully place medical science adviser government payroll past present bill gates alternative structure unelected government stand control elect parliament effectively close covid card slam table structure describe instal major country cult network control hierarchy look like cult cult own gates world health organization tedros gates fund control chief medical officer science adviser dictator country political leader law enforcement people simple global communication enforcement structure policy cult impose virtually entire human population long acquiesce fascism place time buĵon press late prime goal cult secure 1 lock economy close designate essential business cult own corporation essential puĵe population house arrest imperative destroy independent income employment ensure dependency cult control state hunger games society lockdown establish global blueprint start respond virus follow preĵy 2 global population terrifie believe deadly virus actually exist unquestioningly obey authority belief authority know well protect family soĝware salesman gates suddenly morph world health expert promote cult own 3 method testing test virus claim place provide illusion case subsequent death different cause covid-19 scribble death certificate 4 virus great majority test positive test test virus symptom lie sell people symptom virus pass crucial justify first time quarantine house arrest healthy people economy destroy lockdown everybody credibly sell 5 saviour see vaccine evil drug company work like angel mercy develop quickly possible corner cut save day public absolutely know vaccine virus content ready wait different motive long covid card liğe pack say march 2020 vaccine create way ahead covid hoax justifie use following december article new york

ahead covid hoax justifie use following december article new york intelligencer magazine say moderna vaccine design january 2020 china acknowledge disease transmiĵe human human

week first confirmed coronavirus case united states article say time first american death announce month later vaccine manufacture ship national institutes health beginning phase clinical trial vaccine actually design long timescale expect article ask earth quickly instead ask vaccine roll month later journalism mainstream truly dead go detail chapter virus exist hoax scale possible first foundation big lie covid build test test fraudulent testing boĵom line covid hoax mean virus exist appear exist achieve magic trick test test virus use test test virus mean test come negative give virus choose exploit call rt pcr test invent american biochemist kary mullis 1980 say publicly pcr test detect infectious disease yes test worldwide detect infectious covid produce illusory case death compile johns hopkins detect infectious disease fact come mouth man invent pcr award nobel prize cult mullis die august 2019 age 74 test fraudulently unleash fascism world say die pneumonia irony month later covid-19 death certificate timing death convenient live mullis brilliant honest decent man vociferously speak use test detect covid design able know true give mullis point test detect detect hiv seriously critical gallo montagnier claim isolate hiv virus show cause aids mullis say evidence aids actually disease series disease people die time die disease ağer positive test hiv aids go death certificate think hear country instigate policy covid test positive test test virus die cause 28 day long covid-19 death certificate case come test test infectious disease death die ağer test positive test test virus later death certificate scandal mullis deeply dismissive covid star anthony fauci say liar know face say fauci man think blood sample electron microscope get virus know understand electron microscopy understand medicine

electron microscope get virus know understand electron microscopy understand medicine position like position terrifyingly decider covid fascism policy behalf cult role director 1984 national institute allergy infectious diseases niaid record wrong laughable wrong long right kind wrong cult love cult tell fauci chief medical adviser president immediately biden take office biden instal white house cult manipulation first decision elevate fauci position control coincidence yes identify flamenco dancer call lola incompetent criminal like fauci remain

pivotal position american health 1980 serve cult look ağer surplus requirement kary mullis say prophetically fauci like guy agenda agenda like rule change want tony fauci mind go television people pay salary lie directly camera fauci daily covid hoax begin lying fauci dna situation crystal clear pcr test direct quote inventor kary mullis pcr test tell sick tell thing end go hurt ask government medical system world test decide infect sars cov-2 virus alleged disease allegedly cause covid-19 answer question tell go way liĵle stopper new sars- cov-2 virus identifie

right start pcr test test virus new find shocking stick hardly start worse test like lateral flow device lfd consider useless confirm pcr test leak email wriĵen ben dyson adviser uk health secretary maĵ hancock say dangerously unreliable dyson executive director strategy department health write today get positive lfd result london good 25 cent chance true positive self- report test potentially low 10 cent optimistic assumption specificity low 2 cent pessimistic assumption test schoolchildren public urge twice week isolate positive fake positive go statistic case maĵer ludicrously inaccurate case drive lockdown mask pressure vaccinate government say response email leak test accurate confirme shocking bloody liar real false positive rate 100 percent uk government agree pay £ 2.8 billion california innova medical group supply irrelevant lateral flow test company primary test make centre china innova medical group establish march 2020 own pasaca capital inc chair chinese american millionaire

charles huang bear wuhan work rt pcr test know title polymerase chain reaction world million billion copy dna rna genetic information sample process call amplification mean tiny sample genetic material amplifie bring detailed content stress test infectious disease simply amplify sample genetic material word kary mullis pcr process lot emphasise point company pcr test circulate world test covid warn box detect covid infectious disease research purpose okay rest minute fine test produce case death destroy human society global national medical scientific expert demand destruction save know test test virus case death claim real unimaginable fraud

include politician psychopath like gates tedros bring nuremburg type trial jail rest life genetic sample amplifie pcr element material sensitive test mean sensitive virus element genetic material naturally body relate remnant old condition kind lie dormant cause disease amplification pcr reach certain level test positive material sensitive test body lie criminal like fauci say pcr amplification pass 35 cycle false positive trust reason describe like proper doctor scientist 100 percent positive false let fauci moment say amplification 35 cycle produce false positive centers disease control cdc food drug administration fda recommend 40 cycle national health service nhs britain admiĵe internal document staff 45 cycle test laboratory 50 cycle hear doctor medical expert medium ask level amplification claim positive test come positive virus end story government tanzania send off sample goat pawpaw fruit human name come positive covid-19 tanzania president john magufuli mock covid hysteria pcr test mask refuse import dna manipulate vaccine cult hate article sponsor bill gates foundation appear london guardian february 2021 head time africa rein tanzania anti vaxxer president rein shortly magufuli appear good health march 2021 dead 61 heart failure replace samia hassan suhulu connect klaus schwab world economic forum immediately reverse magufuli covid policy sample cola test positive covid pcr

reverse magufuli covid policy sample cola test positive covid pcr test germany american actress singer songwriter erykah badu test positive nostril negative footballer ronaldo call pcr test bullshit ağer test positive time force quarantine miss match wrong mantra tedros world health organization national government thing test test test know test generate fake case death way come uk government operation moonshot plan test multiple million day workplace school free test use twice week home line cult plan start testing life government advertisement interim head asymptomatic testing communication say job include responsibility deliver communication strategy propaganda support expansion asymptomatic testing normalise testing everyday life test mean fake case death fascism hear people book test turn get positive result post test thing crazy cult method madness control manipulate

level amplification test mean authority control want number apparent case death want justify fascist lockdown destruction livelihood amplification high want illusion lockdown vaccine work lower amplification case death appear fall january 2021 cult own world health organization suddenly warn laboratory amplification test lower threshold suddenly headline began appear covid case plummet vaccine rollout underway predict month case appear fall amplification tampering vaccine come people predictable question ask test swab poke far nose population base brain nasal swab puncture woman brain cause leak fluid procedure people liĵle training medical knowledge dr lorraine day orthopaedic trauma surgeon chief orthopaedic surgery san francisco general hospital say test vaccine cow long vaccinate way point mask cover nose mouth claim virus exist saliva saliva mouth dna test instead push long swab nose brain ethmoid bone separate nasal cavity brain bone cribriform plate dr day say swab push plate twist procedure deposit thing claim thing nanoparticle enter brain researcher note team gates fund johns hopkins design tiny star shaped micro device latch intestinal mucosa release drug body mucosa thin skin cover

latch intestinal mucosa release drug body mucosa thin skin cover inside surface part body nose mouth produce mucus protect johns hopkins micro device call theragripper inspire parasitic worm dig sharp tooth host intestine nasal swab coat sterilisation agent ethylene oxide national cancer institute post explanation website room temperature ethylene oxide flammable colorless gas sweet odor primarily produce chemical include antifreeze small amount ethylene oxide pesticide sterilize agent ability ethylene oxide damage dna make effective sterilize agent account cancer cause activity institute mention lymphoma leukaemia cancer frequently report associate occupational exposure ethylene oxide stomach breast cancer think go work constant testing regime inflicte adult child home school accumulate body swab doctor know well vital people realise hero doctor know big pharma dominate medical authority tell know refuse know tell know door physician healer repeater official narrative see alleged professional doctor british television shocking statement suppose

seriously call dr amir khan actually tell patient respond illness say man birth pill help slow effect covid-19 march 2021 ridiculous covid study american doctor propose inject man female sex hormone progesterone covid treatment british doctor nighat arif tell bbc face covering go ongoing normal yes vaccine protect say evidence way deal virus community go come hand washing face covering keep physical distance tell vaccine circulate arif say imagine go underground liğ mask thank good luck doctor say march think near dear home christmas new year patronising delivery usual school teacher talk year old repeat government talking point probably believe learn covid experience surely humanity perception doctor need fundamental rethink nhs doctor sara kayat tell television audience covid vaccine 100 percent prevent hospitalisation death big pharma claim stop take expert word question clueless repeat party line career depend brilliant doctor speak begin will mainstream medium quote psychopath yes people government remember christian drosten german virologist christian

psychopath yes people government remember christian drosten german virologist christian drosten director charité institute virology berlin national star ağer pandemic hoax begin fete television advise german government covid policy importantly wide world drosten lead group produce covid testing protocol pcr test remarkable feat give pcr test infectious disease think drosten say method test sars cov-2 develop have virus material available develop test virus see let sink survey global devastation come catastrophe drosten test base alleged genetic sequence publish chinese scientist internet chapter allege genetic sequence produce china sars cov-2 drosten let liĵle detail like way lead author victor corman charité hospital paper detection 2019 novel coronavirus 2019 ncov real time pcr publish magazine call eurosurveillance know corman drosten paper november 2020 human society devastate effect corman drosten test baloney protocol publicly challenge 22

international scientist independent researcher europe united states japan senior molecular geneticist biochemist immunologist microbiologist produce document head external peer

review rtpcr test detect sars cov-2 reveal 10 major flaw molecular methodological level consequence false positive result flaw corman drosten test include follow test non specific erroneous design result enormously variable test unable discriminate virus positive negative control test lack standard operating procedure unsupported proper peer view scientist say pcr covid testing protocol found science demand corman drosten paper retract eurosurveillance say present previous covid death case infection rate subject massive retroactive inquiry lockdown travel restriction review relax diagnose pcr covid-19 force isolate dr kevin corbeĵ

health researcher nurse educator long academic career produce stream peer review publication uk university point pcr test debacle say scientist conclusion scientific rationale development test totally destroy paper like hiroshima nagasaki covid test say china give isolate virus drosten develop test instead develop test sequence gene bank way scientist support contention portuguese appeal court rule november 2020 pcr test unreliable unlawful quarantine people base solely pcr test point china provide isolate virus true virus isolate day consequence clear drosten company produce useless protocol right cue january 2020 virus say move westward manage successfully pass peer review 24 hour word peer review test decide covid world cult create gates control world health organization immediately recommend nearly 200 member country use drosten pcr protocol detect case death sting underway continue day christian drosten produce mean death destruction economic catastrophe justifie education background include doctoral thesis appear somewhat shroud mystery track record dire essential player covid hoax gates fund professor neil ferguson gates fund imperial college london shortly drosten predict 2003 alleged original sars virus sars-1 epidemic effect economy effective vaccine year produce drosten answer alleged outbreak vaccine will shock know follow 774 official death worldwide germany case believe sars virus evidence zilch expand chapter drosten claim co discoverer sars-1 develop test 2003 scream warning swine flu 2009 widespread infection far severe danger vaccine people vaccinate helpful drosten vocal chord simply record word virus deadly need vaccinate copy hand late

threat come drosten swine flu epidemic happen big pharma mind government spend hundred million vaccine hardly bother use wish study 2010 reveal risk die swine flu h1n1 high annual seasonal flu case covid-19 medium investigation drosten ask record inaccuracy government adviser issue answer question drosten ferguson fauci give authority conclusion advice want hear drosten certainly produce good january 2020 pcr protocol garbage provide

drosten certainly produce good january 2020 pcr protocol garbage provide foundation german internal medicine specialist dr claus köhnlein co author virus mania call test pandemic 22 scientist eurosurveillance challenge call conflict interest drosten protocol group good reason olfert landt regular co author drosten study own biotech company tib molbiol syntheselabor gmbh berlin manufacture sell test drosten mate come sars enterotoxigenic e. coli etec mers zika virus yellow fever covid landt tell berliner zeitung testing design development come charité drosten corman simply implement immediately form kit virus originally exist wuhan synthetic gene simulate genome virus quickly confirmation drosten test design access virus synthetic simulation sars cov-2 computer generate synthetic fiction enterprise go drosten team decide test landt biotech company flog government medical system world company absolute fortune covid hoax begin

dr reiner fuellmich prominent german consumer protection trial lawyer germany california drosten case tedros world health organization crime humanity class action lawsuit prepare united states legal action germany scamme world virus exist impossible face control relatively people policy decision great majority global medium remember change real reality control perception reality happen people believe happen renegade minds understand hard swindle covid-19 real virus mind virus like computer virus infect mind body billion start publically china central significance cult revolution lead asset mao zedong chairman mao establish people republic china october 1st 1949 call cult republic china reflect recur illusion vicious dictatorship run people democratic republics control tyrant way biden democratic republic america

officially rule puppet tyrant temporarily behalf cult tyrant creation mao merciless communist fascist dictatorship frenzy activity cult conclusion world war like world war instigate asset germany britain france united states israel form 1948 soviet union expand iron curtain control influence military power warsaw pact communist alliance 1955 united nations form 1945 cult precursor world government long list world body establish include world health organization 1948 world trade organization 1948 1995 international monetary fund 1945 world bank 1944 human society redrawn hugely centralise global problem reaction- solution world war change significant israel headquarters sabbatians revolution china prepare ground control system event 2019/2020 renegade mind know border public consumption cult seamless borderless global entity understand game need aside label like border nation country communism fascism democracy delude population believe country rule border government shade mere agency global power america illusion democracy china communism fascism subsidiary vehicle agenda hear conflict competition america china low level true cult level branch company way mcdonald example give early track book year support government party chinese communist party infiltration american society allow sale land military facility acquisition american business university influence underpin infamous stealing intellectual property

technological know cult own silicon valley corporation waive fraudulent morality business human rights- free china cult control disney china pr department china effect own american sport basketball depend income chinese audience result sport player coach official speak china horrific human right record immediately condemn fire china worship national basketball association first act china control biden issue executive order tell federal agency stop make reference virus geographic location origin long time congressman jerry nadler warn criticise china america big rival lead hate crime asian people united states shut bigot china fast close israel country criticise apt give sabbatians control country develop close economic military technological strategic tie include involvement china silk road transport economic initiative connect china europe israel first country middle east recognise establishment

mao tyranny 1950 month ağer establish project wuhan covid psyop emphasise cult play long game happen world today result century calculated manipulation follow script control step step aspect human society discuss later common force span century thousand year truth tell instigate mao revolution china 1949 2020 pandemic mind work 71 year short cult standard manipulation preparation reason cult chinese revolution create fiercely control environment extreme structure human control incubate eventually unleash world see happen pandemic emerge china chinese control- structure found ai technology tyrannical enforcement sweep west moment cult go broke west fascism public display western government pay lip service freedom democracy alert people tyranny making freedom subtly erode power centralise covert government structure place wait arrival 2020 smokescreen freedom dispense west able tyranny 2020 like fast china create tyranny limit fast construct cult blueprint global control time come impose structure world cult own chinese communist fascist government provide excuse covid pandemic absolutely crucial cult plan chinese response pandemic draconian lockdown entire population blueprint western country follow destroy livelihood freedom people cult- own gates own director general

tedros say early chinese government congratulate extraordinary measure take contain outbreak china actually set new standard outbreak response exaggeration forbes magazine say china measure protect untold million geĵe disease rockefeller foundation epidemic scenario document 2010 say prophetically country fare well china particular chinese government quick imposition enforcement mandatory quarantine citizen instant near hermetic sealing border save million life stop spread virus far early country enable swift post pandemic recovery spooky first official story bat theory bat diversion source virus outbreak tell wet market wuhan bat animal buy eat horrifically unhygienic condition story emerge alternative medium virus release purpose accident bsl-4 biosafety level 4 laboratory wuhan far wet market lab report create work lethal concoction bioweapon biosafety level 4 high world

health organization system safety containment renegade minds aware designer manipulation ideal cult people buy prime narrative open salvo pandemic wet market story know considerable worldwide alternative medium researcher sceptical government oğen give version event form perceive credible misdirect real truth case let think conspiracy involve bioweapon virus release wuhan lab real conspiracy virus current position source outbreak time writing appear get clue mate good position maintain mystery bewilderment inner circle know virus come boĵom line ensure public believe virus maĵer think natural release lab belief deadly virus need trigger global panic fear population tell go to die march 2020 information begin come way real doctor scientist additional research intuition scream yes virus bioweapon virus vaccine talk bioweapon conclusion enhance happening wuhan virus say sweep city news footage circulate people collapse street west virus chinese government build new hospital maĵer day cope demand virulent nature virus like time new hospital close open china declare virus free business usual propaganda promote chinese draconian lockdown west way beat virus trouble subsequently lockdown ağer lockdown business usual people west rest world catch worsen spiral

lockdown business usual people west rest world catch worsen spiral lockdown social distancing mask isolate old people family force apart livelihood destruction party time wuhan picture emerge thousand people enjoy pool party concert sense realise virus thing cult set transform human society major global stronghold china possible deceive virtually entire world population believe deadly virus virus let deadly like difficult think clearly true happen postscript end book postscript wuhan lab virus release story authority medium push heavily summer 2021 divert aĵention truth covid virus pure invention virus fool people time people time fool people time great form mind control repetition repeat mantra allege fact accept true know mate censor version alternative allege fact preĵy home cooking start 2020 cult own global mainstream medium entirety spew covid propaganda ignore discredit information view cult own social medium platform cult own silicon valley poise ready unleash campaign

ferocious censorship obliterate official narrative complete circle demand censorship silicon valley lead mainstream medium journalist enforcer cult propagandist censor influx young people straight university journalist significant position experience headful program perception year school university time today young perceptually target generation know human history give insidious impact technology enter medium perceptually prepared ready repeat narrative system program repeat narrative bbc truly pathetic specialist disinformation reporter call marianna spring

fit bill perfectly clueless world work proper journalist system serve hack like spring dare need busy lick arse authority wrong case bbc propaganda programme panorama contact payment system paypal donation page take film company make documentary question vaccine bbc soap opera eastenders include disgracefully biased scene inarticulate white working class woman look foolish question vaccine speak black man asian woman promote government narrative tick bbc box fact black minority community resist vaccine way scene wriĵen bbc disgusting tyrannical propaganda censorship operation defunde disband free medium place brief stop censorship instead demand bbc interview gates go like mr gates sir sir like tell audience great man wonderful humanitarian philanthropist absolutely allow soĝware salesman decide health policy approach billion people thank sir sir propaganda programming incessant merciless hear story medium repeat hear story wonder people grand scale believe absolute mendacious garbage true level information control necessary official covid narrative nonsensical unsupportable evidence structure deceit pyramid structure covid hoax manifest simple work people possible involve knowledge pyramid inner core cult control bill gates turn control world health organization pivotal funding puppet director general mouthpiece tedros appoint tedros chair gates found global fund fight aids tuberculosis malaria board member gates fund vaccine alliance gavi board gates fund organisation gates own pick specific reason tedros crook bad dr tedros medical doctor first chief member tyrannical marxist government

ethiopia decade human right abuse face allegation corruption misappropriation fund expose time cover cholera epidemic ethiopia health minister tedros appoint mass murder genocidal zimbabwe dictator robert mugabe goodwill ambassador public health tedros like appoint psychopath run peace love campaign ridiculous drop mugabe face widespread condemnation american economist david steinman nobel peace prize nominee lodge complaint international criminal court hague alleged genocide tedros ethiopia foreign minister steinman say tedros crucial decision maker direct action ethiopia security force 2013 2015 official charge security service embark killing torturing ethiopians tedros come sober think vehicle gates cult direct global response covid think psychopathic cult dictate psychopath gates dictate psychopath tedros dictate country world respond covid virus scientifically show exist time psychopathic cult own silicon valley information giant like google youtube facebook twiĵer announce early cult gates tedros version narrative free advertising censor challenge intelligence insult mendacious story layer global medical structure cult gates tedros chief medical officer science adviser member country mean virtually medical officer arbiter science policy recommend response impose country population political leader decide policy clearly follow science advice expert medical officer science adviser dictator way rare exception entire world follow policy lockdown people distance mask vaccine dictate psychopathic cult psychopathic gates psychopathic tedros suppose believe damn health world population seek enslave amazingly term crucial decision making medical staff country follow like sheep dictate shepherd national medical hierarchy chief medical officer science adviser follow like sheep shepherd world health organization cult shepherd national level oğen major funding connection gates bill melinda gates foundation carefully hand money like confeĵi wedding control entire global medical system follow money christopher whiĵy chief medical adviser uk government centre virus policy senior adviser government scientific advisory group

emergencies sage executive board member world health organization giğe grant $ 40 million bill melinda gates foundation malaria research africa bbc describe unelected whiĵy official

probably great impact everyday life individual policymaker modern time turn gates tedros say whiĵy like equivalent world patrick vallance co chair sage government chief scientific adviser executive big pharma giant glaxosmithkline fundamental financial business connection bill gates september 2020 reveal vallance own deferred bonus share glaxosmithkline worth £ 600,000 company develop covid vaccine possibly wrong imperial college london major player covid policy britain covid-19 response team fund gates big connection china infamous professor neil ferguson useless computer modeller imperial college fund gates ferguson deliver dramatically inaccurate excuse first lockdown chapter institute health metrics evaluation ihme united states source outrageously false covid computer model justify lockdown bankroll gates vehement promotor lockdown america version whiĵy vallance infamous anthony fauci connection covid vaccine maker moderna bill gates funding bill melinda gates foundation fauci director national institute allergy infectious diseases niaid major recipient gates money close deborah birx appoint white house coronavirus response coordinator february 2020 tie gates look different element world coordination decision making covid hoax bill gates money include world health organization centers disease control cdc united states national institutes health nih anthony fauci imperial college neil ferguson london school hygiene

chris whiĵy work regulatory agency like uk medicines healthcare product regulatory agency mhra give emergency approval covid vaccine wellcome trust gavi vaccine alliance coalition epidemic preparedness innovations cepi johns hopkins university compile false covid figure world economic forum nationalfile.com article say gates lot pull medical world multi million dollar relationship dr. fauci fauci originally take gates line support vaccine cast doubt drug hydroxychloroquine coronavirus response team member dr. deborah birx appoint president obama serve united states global aids coordinator sit board group receive billion gates foundation birx reportedly dispute bill gates fund model white house coronavirus effort gates big proponent population lockdown scenario coronavirus outbreak funder moderna defense

advanced research projects agency darpa technology development arm pentagon sinister organisation earth darpa major role cia covert technology fund operation q tel development google social medium centre global censorship fauci gates extremely close openly admit talk regularly covid policy gates seat national covid table ağer foundation commiĵe $ 1.75 billion fight covid-19 pass orwellian translation unit mean buy pay cult- drive covid response worldwide research major covid response personnel country find gates funding connection medical science chief follow world health organization policy sit atop medical hierarchy country administrator doctor nursing staff.

subordinate tell work behave accordance policy deliver national health pyramid largely policy deliver policy deliver gates cult covid narrative impose medical staff climate fear great number need comply breathtaking level ignorance include doctor life simply repeat big pharma hierarchical master tell believe wonder big pharma medicine big killer system intimidation operate regard cult big pharma cartel dictate policy national global medical system way cult big pharma agenda control own laĵer health administrator doctor nursing staff tell support parrot dictate policy face consequence include fire sad medical staff meekly repeat impose cult policy question deceit willing speak anonymously off record know happen identity know leğ courageous expose lie virus face mask overwhelmed hospital danger vaccine vaccine medical professional scientist renowned field take internet expose truth article comment video delete cult own facebook twiĵer youtube real head shaker youtube video lead world scientist highly qualified medical specialist add link underneath notorious cult propaganda website wikipedia find fact hiv covid trial run example consequence health truth come censorship unquestioning belief official narrative story tell pcr inventor kary mullis book dance naked mind field say 1984 accept scientific fact luc montagnier france pasteur institute robert gallo america national institutes health independently discover retrovirus dub hiv human immunodeficiency virus cause aids ağer mullis write specialist retrovirus medical science pyramid work announce assume everybody know purely repetition assumption fact complete

crap accept truth support evidence repetition crap virus exist virus change world hiv aids fairy story multi- billion pound industry medium pour propaganda terrify world deadly hiv virus cause lethal aids mullis work lab santa monica california detect retrovirus pcr test blood virologist find reference hiv cause aids need reference virologist say everybody know mullis say want quote reference report source important discovery virologist suggest cite report centers disease control prevention cdc morbidity mortality mullis read

report centers disease control prevention cdc morbidity mortality mullis read report say organism identifie report identify original scientific work physician assume key recur theme cdc convince hiv cause aids proof exist mullis continue computer search montagnier gallo publish paper describe experiment lead conclusion hiv probably cause aids read paper science known aids doctor say find evidence past infection probably hiv aids patient find antibody antibody virus consider evidence past disease present disease antibody signal virus defeat patient save indication paper virus cause disease everybody antibody disease fact find healthy people antibody mullis ask work publish montagnier gallo find evidence fighte hard credit discovery say hesitant write hiv probable cause aids find publish evidence support ten thousand scientist research base idea mullis write reason people allow research seĵle narrow channel investigation say lecture pcr numerous meeting people talk hiv ask know hiv cause aids say answer home office drawer know send paper soon get get paper send news aids cause hiv eventually mullis able ask montagnier reference proof lecture san diego grand opening university california aids research center mullis say time ask question show anger montagnier say reference cdc report read mullis say answer question montagnier know answer hell night mullis drive interview come national public radio peter duesberg

prominent virologist berkeley california scientist year mullis say finally understand find reference connect hiv aids prove hiv cause aids spawn multi billion pound global industry medium repeat fact day article broadcast terrify shit people aids give impression positive test

hiv covid death sentence duesberg threat aids gravy train agenda underpin abuse castigate ağer tell proceedings national academy sciences good evidence implicate new virus editor reject manuscript research fund delete mullis point cdc define aids 30 disease accompany positive result test detect antibody hiv disease define aids case antibody detect hiv positive woman develop uterine cancer example consider aids hiv positive simply uterine cancer hiv positive man tuberculosis aids test negative simply tuberculosis live kenya colombia test hiv antibody expensive simply presume antibody aids treat world health organization clinic medical help available place free country support worried aids mullis accuse cdc continually add new disease covid symptom grand aids definition virtually doctor book appear disease continue spread cite 1993 cdc enormously broaden aids definition county health authority delight receive $ 2,500 year federal government report aids case lady gentleman describe kary mullis covid pandemic 2020 element pull off way network covid virus exist okay prove er waiting kary mullis describe regard hiv repeat covid claim new novel infection find entire medical system world repeat fact exactly hiv aids mainstream ask relevant question know proof sars cov-2 virus covid-19 disease overnight everybody know origin debate mull suggest sars cov-2 exist ridiculous everybody know virus exist american proper doctor like andrew kaufman

tom cowan long time american proper journalist jon rappaport dare pursue obvious simple question evidence overwhelming majority medicine journalism general public think ask ağer know new virus say hear bbc eventually argue deadly virus like deadly claim venture realm existence find evidence claim go awol hiv cause aids fact awol exist first place scientific proof sars cov-2 file zilch

dr andrew kaufman board certifie forensic psychiatrist new york state doctor medicine assistant professor medical director psychiatry suny upstate medical university medical instructor hematology oncology medical school south carolina study biology massachuseĵs

institute technology mit train psychiatry duke university kaufman retire allopathic medicine remain consultant educator natural healing see video early covid hoax question claim virus absence support evidence plenty point way circulate work feel ask pivotal question need answer recommend excellent pull interview website vagabond entitle dr andrew kaufman virus isolation terrain theory covid-19 website andrewkaufmanmd.com kaufman forensic psychiatrist forensic read original scientific paper experiment study instead second fourth hand report virus medium repeat repeat repetition narrative original chinese virus paper kaufman realise evidence sars cov-2 start show exist repeat claim worldwide base accept existence proof find kary mullis hiv kaufman discover chinese authority immediately conclude cause illness break 200 initial patient wuhan new virus ground conclusion allege virus isolate genetic material sample show system know koch postulate causative agent illness world tell sars cov-2 virus cause disease call covid-19 flu like symptom lead respiratory problem pneumonia tragic funny flu like symptom pneumonia respiratory disease china particularly wuhan polluted city world result epidemic respiratory disease thousand people pneumonia china year nearly billion case worldwide flu like symptom range cause include pollution wuhan possibility credibly consider late 2019 world tell new deadly virus global prevalence pneumonia flu like system give cult network unlimited potential re- diagnose cause mythical covid-19 start kaufman reveal chinese medical science authority subordinate cult own communist government take genetic material lung first patient material contain cell bacteria fungus microorganism live body way prove existence virus responsibility allege covid-19 isolate virus material process know purification follow postulate sequence develop late 19th century german physician bacteriologist robert koch gold standard connect alleged causation agent disease 1 microorganism bacteria

gold standard connect alleged causation agent disease 1 microorganism bacteria fungus virus etc present case disease patient symptom present healthy 2 microorganism isolate host disease microorganism bacteria fungus grow pure culture virus purifie i.e. contain material

virus particle clinical sample 3 specific disease characteristic reproduce infectious agent purified virus pure culture bacteria fungus inoculate healthy susceptible host 4 microorganism recoverable experimentally infect host step criterion meet case sars cov-2 covid-19

robert koch refer bacteria virus call viral particle minute mask useless definition see ağer invention electron microscope 1930 observe means american bacteriologist virologist thomas milton rivers call father modern virology significantly director rockefeller institute medical research 1930 develop stringent version koch postulate identify virus causation know rivers criterion covid pass process doubt virus isolate particle contain genetic material koch method freedom information request country ask scientific proof covid virus purifie isolate show exist come happen request uk department health add comment outside scope freedom information act discretionary basis following information advise interest infectious disease cause virus bacteria fungus bacteria fungus capacity grow isolation example colony petri dish virus different obligate pathogen survive reproduce infect host disease possible establish causation microorganism disease isolate pathogen patient grow pure culture reintroduce healthy organism know koch postulate develop 1882 understanding disease different disease cause agent advance long method determine causation andrew kaufman ask case publish article falsely claim satisfy koch postulate long know viral disease identify way virus grow pure culture patient test viral illness normally look presence antigen viral genetic code host molecular biology technique kaufman ask know origin chemical have pure culture comparison record antigen define invade microorganism antigen surface human body recognise foreign mean belong body recognise foreign antigen lymphocyte white blood cell produce antibody complementary shape notwithstanding open question relation sars- cov-2 presence antibody cause find people perfectly kary mullis say antibody consider evidence past disease present disease covid computer virus uk department health statement say virus diagnose viral genetic code host molecular biology technique mean pcr test inventor say test infectious disease credible method connect virus disease scientific proof virus cause disease thing virus way

describe tenacious canadian researcher christine massey team 40 freedom information request national public health agency different country

ask proof sars cov-2 isolate supply information massey say request canada freedom information reveal public health agency canada record sars- cov-2 isolation perform accept comment uk department health isolate virus science paper claim isolate covid virus question admit reply robert koch institute germany typical aware paper purified isolate sars cov-2 hell christian drosten gang design covid testing protocol produce illusory covid case covid death head chinese version cdc admíĵe problem right start virus isolate purified breathe deeply call covid actually create computer program i.e. er take lung fluid source

genetic material single person allege infect covid-19 pcr test claim clear evidence contain virus computer program create model theoretical virus genome sequence fiğy million small sequence rna unknown source assemble like puzzle know solution computer fille gap sequence bit gene bank look like bat sars like coronavirus wave magic wand poof silico computer generate genome scientific fantasy create uk health researcher dr kevin corbeĵ point analogy like give bone say fish fish skeleton fragment bone fish gene bank bit virus sequence synthetically create fill blank genetics code abbbccddd miss think eee synthetic manufacture bit miss end result geneticization virology basically computer virus confirmation come email exchange british citizen journalist frances leader government medicines healthcare products regulatory agency gates fund mhra give emergency permission untested covid vaccine agency admíĵe vaccine base isolate virus come computer generate model frances leader naturally ban cult own fascist twiĵer make exchange public process create computer- generate allege virus call silico silicon computer chip term silico believe originate biological experiment computer 1989 vaccine involve covid produce silico computer natural process original virus computer model new variant exist first place new variant new computer model minutely different original program design terrify population have vaccine submíĵe

fascism want new variant click click enter tell medical profession discover south african variant uk variant brazilian variant usual hiv cause aids manner unquestioningly repeat evidence whatsoever support claim television repeat tell true know deviation career suicide big time insider know hoax medical community clueless way play play public coincidence astrazeneca oxford university conduct covid vaccine trial country uk south africa brazil first variant claim break virus unicorn dr andrew kaufman present brilliant analysis describe virus imagine fake existence dissect article publish nature wrîĵen 19 author detail alleged sequencing complete viral genome new sars- cov-2 virus computer model silico genome template subsequent

new sars- cov-2 virus computer model silico genome template subsequent genome sequencing experiment result call variant say number 6,000 fake genome construct 56 million individual short strand rna liĵle piece assemble long piece finde area overlap sequence computer program create million possible combination author simply choose long compare bat virus computer alignment rearrange sequence fille gap call computer generate abomination complete genome dr tom cowan fellow medical author collaborator kaufman say computer generation constitute scientific fraud make superb analogy equivalency group researcher claim find unicorn find piece hoof hair tail snippet horn add information computer program create unicorn claim computer creation real unicorn course actually see unicorn possibly examine genetic makeup compare sample actual unicorn hair hoof horn researcher claim decide real genome sars cov-2 consensus sort like vote different computer program come different version imaginary unicorn come group decide real virus transform world bring fraudulent existence extraordinary yes nazis say big lie believe cowan finishe go identify call real blockbuster paper quote section paper wrîĵen virologist publish cdc explain examine capacity sars cov-2 infect replicate common primate human cell line include human adenocarcinoma cell a549 human liver cell huh 7.0 human embryonic kidney cell hek-293 t addition vero e6 vero ccl81 cell cell line inoculate high multiplicity infection examine 24h post infection cpe observe cell line vero cell grow great 10 7th power 24 h post infection contrast

huh 7.0 293 t show modest viral replication a549 cell

incompatible sars cov-2 infection cowan explain virologist aĵempt prove infection possible host model test first human exposure human generally ethical reason sars cov-2 coronavirus second possible host animal cowan say forgeĵe moment actually use purified virus expose animal use solution claim contain virus exposure animal sars cov-2 experiment involve mouse find wild normal mouse get sick group genetically modified mouse statistically insignificant number lose weight slightly bristle fur experience like illness call covid-19

cowan say method rely inoculate solution contain virus variety tissue culture process show kill tissue sample material starve nutrient poison process yes incredibly tissue experiment design virus responsible kill tissue starve tissue nutrient add toxic drug include antibiotic control study starvation poisoning degrade tissue virus allege want pinch yep understand tom cowan say nonsensical farce explain quote cdc paper mean shocking thing quote method virologist find solution contain sars cov-2 high amount repeat infective human tissue culture test plain english mean prove term new coronavirus infectious human being infective monkey kidney cell add potent drug gentamicin amphotericin know toxic kidney mix friend read virologist publish cdc perform clear proof term show sars cov-2 virus harmless human being possible conclusion unfortunately result mention conclusion simply provide virus stock culture monkey vero cell thank come cowan conclude people understand science hope storm gate demand honesty transparency truth dr michael yeadon vice president chief scientific adviser drug giant pfizer vocal critic covid vaccine potential multiple harm say interview april 2021 vaccine virus ask vaccine normally dead version disease activate immune system covid instead synthetic method mrna covid vaccine yeadon say virus add get seriously yeadon say surely fool world year have virus oddly ask get know great lab world virus isolate maybe busy run bad pcr test vaccine people need today call science science science long people manipulate believe real science hijacke cult dispense produce expert scientist contention suit agenda cult big time

happen covid hoax entirely base fake science deliver fake scientist fake doctor human cause climate change hoax entirely base fake science deliver fake scientist fake climate expert case real scientist climate expert doctor view suppress delete cult own science establishment medium silicon valley science politician claim follow common denominator covid climate cult psychopath bill gates mate klaus schwab gates- fund

climate cult psychopath bill gates mate klaus schwab gates- fund world economic forum worry coincidence absolutely worry zzzzzzzz virus dr tom cowan contest existence virus let cause disease understandable scientific evidence disease cause virus german virologist dr stefan lanka win landmark case 2017 german supreme court contention thing measles virus offere big prize prove lanka win case seek claim money currently prize 225,000 euro offer isolate truth fund prove isolation sars cov-2 genetic substance lanka write article head misconception call virus scientist think virus cause tissue diseased degraded fact process virus lanka important job make point clear cowan analysis cdc paper lanka say claim virus disease cause pathogen wrong base easily recognisable understandable verifiable misinterpretation scientist believe work virus laboratory work typical particle specific die tissue cell lanka say tissue decay process claim cause virus happen allege virus involve process damage virus genetic sample deprive nutrient remove energy supply removal body douse toxic antibiotic remove bacteria confirm establishment scientist pinch conduct control experiment case nonsense add measles virus court case commission independent laboratory perform control experiment result tissue cell die exact way allege infect material support gather number scientist doctor researcher reject call germ theory belief body infect contagious source emîĵe people researcher dawn lester david parker

stance highly detail source book make ill think know disease wrong recommend number medical professional genuinely seek truth lester parker provable scientific evidence virus transmîĵe people people animal animal definition claim virus cause disease definitively prove

case original scientific evidence definitively demonstrate virus cause disease burden proof theory lie propose exist document provide proof support claim virus pathogen dr tom cowan employ clever analogy describe process virus name culprit disease call virus material release cell detox infiltration chemical radiation poisoning tidal wave technologically generate radiation smart modern world plus toxic food drink cause happen deluded scientist misread gather impact wrongly label virus paper infect house cowan say article davidicke.com tongue mildly cheek believe tremendous discovery revolutionise science discover small bit paper alive alive ish infect house reproduce inside house result explosion growth paper inside house cause house explode blow smithereen evidence new theory past month carefully examine house neighbourhood find scrap paper lawn surround house occasional stray label return house week later particularly old decrepit one find shock surprise liĵere stray bit paper know paper infect house copy blow house young boy bicycle site tell see demolition crew dynamite explode house previous week cowan dismiss idle thought silly boy big scientist mistake genetic material detoxify process virus cowan say house paper story sound crazy scenario obviously nuts consider admittedly embellish effect current viral theory scientist medical doctor virologist currently believe take example novel sars cov2 virus prove point undefined illness call covid-19 aĵempt find virus sputum mind scientist describe virus locate aĵaches cell receptor inject genetic material covid case rna cell rna insert exploit cell reproduce make thousand nay million copy emerge victorious claim look scientific literature proof actual scientific proof uniform sars cov2 virus properly isolate sputum sick person actual spike protein see protrude virus find find evidence exist

actual spike protein see protrude virus find find evidence exist look publish scientific literature actual picture proof spike protein viral protein attach receptor embed cell membrane find evidence exist look video document evidence intact virus inject genetic material body cell reproduce emerge victorious bud cell membrane find evidence exist close thing find electron micrograph picture cellular particle possibly attach cell debris see stain heavy metal process

completely distort architecture live organism like find bit paper stick blow brick prove paper emerge take piece brick way enders baloney cowan describe covid story believe paper story chart fantasy nobel prize winner call john enders 1897 1985 american biomedical scientist dub father modern vaccines enders claim discover process viral culture prove virus cause measles cowan explain enders exact procedure follow virologist find characterize new virus 1954 enders take throat swab child measles immerse 2ml milk penicillin 100u ml antibiotic streptomycin 50,g ml add mix centrifuge rotate high speed separate large cellular debris small particle molecule milk cream example cowan say aim find liĵle particle genetic material virus snot child measles thing mix snot material milk genetic material go know find come snot milk point streptomycin nephrotoxic poisonous kidney drug relevance shortly cowan say get bad bad enders describe culture medium virus grow culture medium consist bovine amniotic fluid 90 beef embryo extract 5 horse serum 5 antibiotic phenol red indicator cell metabolism cowan ask incredulously culture medium contain fluid tissue rich source genetic material genetic cocktail medium inoculate tissue cell rhesus monkey kidney tissue importance streptomycin come currently antimicrobial drug poisonous kidney modern viral culture e.g. gentamicin streptomycin amphotericin cowan ask go know witch brew genetic material come five different source rich genetic material mix remember say genetic material monkey kidney tissue bovine serum milk etc exact component central question return possibly go

serum milk etc exact component central question return possibly go know virus kill kidney tissue toxic antibiotic starvation ration grow tissue john enders answer question second agent obtain uninoculated culture monkey kidney cell cytopathic change death cell induce unstained preparation distinguish confidence virus isolate measles death cell cytopathic change happen exactly manner inoculate kidney tissue measles snot cowan say evidence destruction tissue proof viral causation illness cause snot see destructive effect snot cytopathic i.e. cell kill change come process culture virus snot

period enders quote 1957 paper virologist call ruckle report similar finding addition isolate agent monkey kidney tissue far indistinguishable human measles virus word cowan say particle call measles virus simply clearly breakdown product starve poison tissue measles virus virus include call covid virus enders father modern vaccines say potential risk employ culture primate cell production vaccine compose attenuate virus presence agent possibly latent primate tissue definitely exclude know method cowan quote paper publish journal viruses 2020 covid pandemic underway medium reality ev refer particle genetic debris tissue exosome moment remarkable resemblance ev virus cause problem study focus analysis ev release viral infection later paper add date reliable method actually guarantee complete separation ev virus exist publish time fairy tale virus claim total certainty cause fairy tale viral disease call covid-19 fairy tale way transform human society image cult work achieve long cowan conclude article summarize scientific evidence pathogenic virus exist think virus simply normal breakdown product dead die tissue cell few particle starve poison suffocate wear mask afraid engineer virus circulate make people sick people laboratory world make genetically modify product people sick call vaccine virome ecosystem virus virus 8 50 100 genetic material simply erroneous idea base misconception call virus covid load bollock background describe cowan lanka emphasise first video presentation see dr andrew kaufman ask covid virus truth natural defence mechanism body call exosome release cell state toxicity theme return release profusely chemical radiation toxicity increase think potential effect 5 g destructive frequency infest human energetic information field gather pace 5 g go online wuhan 2019 virus emerge later exosome transmit warning rest body

houston problem kaufman present image exosome compare covid electron microscope similarity remarkable aĵach cell receptor claim case covid contain genetic material form rna ribonucleic acid find viral cell culture damaged die cell james hildreth md president chief executive officer meharry medical college johns hopkins say virus fully exosome sense word kaufman conclusion virus entire pandemic completely manufacture crisis evidence die illness

dr tom cowan sally fallon morell author contagion myth publish statement dr kaufman february 2021 explain virus exist read appendix virus theory trace cell theory 1858 german physician rudolf virchow 1821 1920 contend disease originate single cell infiltrate virus dr stefan lanka say finding insight respect structure function central importance tissue creation life know 1858 comprehensively refute cell theory virchow ignore see later play john enders 1950 lanka note infection theory establish global dogma policy eugenic reich nazi germany creation sabbatian cult covid hoax lanka say 1933 scientist dare contradict theory ağer 1933 critical scientist silence dr tom cowan view ill heath cause liĵle toxification chemical radiation contagion highlight major source virus theology man call father modern virology thomas milton rivers 1888 1962 way give cult long game policy coincidence father modern virology director rockefeller institute medical research 1937 1956 credit make rockefeller institute leader viral research cult rockefellers force creation big pharma medicine establish world health organisation 1948 long close association gates

family run pandemic hoax mega rich cult gofer psychopath bill gates renegade mind bullshit ask question need answer take prevarication answer certainly hide truth fear speak renegade minds change world beĵer change maĵer bleak currently appear sequence deceit tell truth remember gainst background lay far sequence take invent virus cult own china late 2019 fascist transformation human society see understand new context tell deadly disease break wuhan world medium begin campaign coordinate behavioural psychologist shall terrify population unquestioning compliance show image chinese people collapse street happen west suppose condition early day allege case death fear register hysterical area medium expand common medium narrative world real story different tell chinese government cult big centre global operation say discover new illness flu like pneumonia- type symptom city toxic air overwhelm flu like symptom pneumonia respiratory disease chinese scientist say new novel coronavirus call sars cov-2 cause disease label covid-19 evidence virus day isolate purifie genetic code establish beginning computer generate fiction story chinese whistleblower say

number death supresse new disease relate wuhan bio lab misdirect mainstream alternative medium cul de sac obscure real truth virus chinese scientist take genetic material lung fluid people say find new disease material wide range content evidence virus reason explain chapter virus show exist b cause disease people diagnose symptom widespread wuhan pollute china pcr test detect infectious disease farce global scam sell rest world diagnose respiratory disease covid-19 symptom pcr test test virus flu miraculously disappear worldwide 2020 2021 redesignate covid-19 old flu flu like symptom aĵributed flu like covid-19

time exception chinese response draconian lockdown fascism choose weapon respond west recommend cult own tedros cult own world health organization run cult own gates go accord plan chinese scientist china control cult own government compare contaminate rna lung-fluid material rna sequence say appear 80 percent identical sars cov-1 virus claim cause sars severe acute respiratory syndrome outbreak 2003 decree new virus relate call sars cov-2 problem assumption assumption factual science turn assumption repeat know match 80 percent meaningless dr kaufman make point 96 percent genetic correlation human chimpanzee genetic material chimpanzee family chinese authority claim low percentage 80 percent prove existence new coronavirus goodness sake human dna 60 percent similar banana feel sleepy entire covid hoax global psyop psychological operation program human mind believe fear complete fantasy crucial aspect appear happen italy stream daily image allege catastrophe wuhan western mind world different culture seĵing reaction happen family like intense mind doctor cult need western example push people edge choose italy major global location go roman empire italian covid crisis manufacture particular area call lombardy happen notorious toxic air respiratory disease wuhan china déjà vu hysterical medium tell horror story

italians die covid drove lombardy hospital overrun tidal wave desperately ill people need treatment ağer strike deadly virus psychological turning point cult plan wow happen italy western mind conclude happen family point italian authority respond follow chinese blueprint

vehemently recommend cult own world health organization impose fascistic lockdown country viciously police help surveillance drone sweep street seek escape mass house arrest livelihood destroy psychology unravel way witness lockdown country crucial plan italy respond way set precedent suspend freedom impose fascism western liberal democracy emphasise animated video explanation davidicke.com post summer 2020 important cult expand chinese lockdown model west bare faced lie non symptomatic people transmit disease way lock population sick sick pull off. right time evidence cult operative gofer claim people symptom pass disease protect vulnerable like elderly people lockdown kill ten thousand first time healthy people tell isolate sick great majority people test positive symptom wrong trick possible test test month ağer animate video gates fund professor neil ferguson gates fund imperial college confirme right term naturally ferguson enter story shortly outrageously crazy computer model lead britain united states country follow chinese italian method response way follow cult script

ferguson say sage uk government scientific advisory group control covid policy start want follow chinese lockdown model continue work pay wonder possibly ferguson word away europe away hell moronic arrogant people think appalling man ferguson say italy go national lockdown realise mimic china communist party state say away europe think italy realise garbage ferguson ferguson model play central role achieve coincidence course absolutely worry little head oops sorry mistake italian segment psyop job design different story emerge italian authority reveal 99 percent die covid-19 italy co morbidity illness health problem end life centers disease control prevention cdc publish figure 94 percent americans die covid have medical condition average five potential cause death term death unproven virus 100 percent percent italy percent presumably die covid flu like symptom range possible cause conjunction test test virus fox news report startling figure emerge county 410 422 death aĵribute covid-19 potentially deadly health condition italian national health institute say later average age people die covid-19 diagnosis italy 81 ninety percent 70 percent 90 term reason die 80 percent

chronic disease half have include cardiovascular problem diabetes respiratory problem cancer phantom covid-19 say kill overwhelmingly old people hardly affect young old people continually die cause especially respiratory disease re- diagnose covid-19 young people die tiny number comparison rarely respiratory disease old people die covid die thing redesignate covid simple flu fly blueprint place illusory case test test virus redesignate cause death covid-19 instant pandemic computer generate fiction near billion people have flu like symptom year potential limitless flu quickly apparently miraculously disappear worldwide diagnose covid-19 painfully bloody obvious

explain away childlike medium headline like uk independent single case flu detect public health england year covid restriction suppress virus kid masking social distancing house arrest covid virus disappear flu virus bad article bloke call samuel loveĵ suggest maybe masking sanitising covid measure continue flu away ridiculousness disturb breathing covid-19 say loveĵ write widespread social distancing mask wearing measure place uk usual route transmission influenza block absolutely evidence support statement look consequence acknowledge obvious flu disappear relabelle covid-19 contemplate covid hoax scale hard imagine need gut commitment truth clearly samuel loveĵ abundance get editor ten thousand die united states winter flu include pneumonia complication cdc figure record 45 million americans diagnose flu 2017 2018 61,000 die report claim 80,000 hysteria see covid-19 250,000 americans admiĵe hospital pneumonia year 50,000 case prove fatal 65 million suffer respiratory disease year million death make big cause death worldwide redesignate portion people covid-19 instant global pandemic appearance doctor tell dare refuse obey doctor general research knowledge instead direct unquestioned authority career authority diagnose symptom covid-19 flu dark suit covid-19 death certificate maĵer cause death doctor renegade mind fall illusion doctor medical staff highly intelligent highly principled seeker medical truth majority repeater gofer yes sir sir purveyor system demand purvey covid con merely confine disease lung instruction doctor covid-19

death certificate die 28 day positive test test virus open floodgate term die covid covid coin cover truth add death number aĵributed deadly virus compile national government globally gates fund johns hopkins operation united states involved pandemic simulation fraudulent death add ever- grow list fraudulent case false positive false test wonder professor walter ricciardi scientific advisor italian minister health say ağer lombardy hysteria job covid death rate italy have second old population world hospital record death way code death country generous sense people die hospital coronavirus deem die coronavirus evaluation national institute health 12 cent death certificate show direct causality coronavirus 88 cent patient die pre morbidity extraordinary consider propaganda campaign use italy terrify world percent genuine virus show exist code computer program diagnosis come test test china soon world covid-19 italy redesignation diagnosis lie corruption real pandemic fuel pathetically compliant medical system take order tiny national hierarchy answer world health organization answer gates cult doctor tell order diagnose particular set symptom covid-19 death certificate cause death patient test positive test test virus covid symptom like flu united states introduce big financial incentive manipulate figure hospital receive £ 4,600 medicare system diagnose regular pneumonia $ 13,000 diagnosis symptom covid-19 pneumonia $ 39 000 covid diagnose patient ventilator certainly kill painfully pathetically medical whistleblower reveal cult own youtube delete video instruct let patient crash straight ventilator instead go series far intrusive dangerous method pandemic hoax begin financial incentive kick talk cold blooded murder give ventilator damaging respiratory system usually step heaven await renegade mind fall belief people white coat angel mercy psychopath

explain detail answer describe play world coordinate world health organization medical hierarchy country medical scientist call information non existence virus begin emerge late march 2020 mushroom ağer send email sir julian rose writer researcher organic farming promotor medical scientist friend united states early stage march scientist able explain covid

hoax manipulate say reliable test specific covid-19 virus reliable agency medium outlet report number actual covid-19 case see long period absolutely right action reaction covid-19 base totally flawed datum simply accurate assessment say people diagnose covid-19 show cold flu like symptom coronavirus strain cold/flu like symptom farcical situation like 84 year old german man test positive covid-19 nursing home order quarantine find common cold scientist describe pcr test call mickey mouse test kit useless claim identify idea kit isolate specific virus like covid-19 nonsense say significantly point want create totally false panic totally false pandemic pick coronavirus exactly cult own gates world economic forum johns hopkins university event 201 simulation follow real life simulation call pandemic scientist say select sick people respiratory type disease single location wuhan administer pcr test claim show viral sequence similar coronavirus inevitably suffere select sick flu case fairly high proportion sample die new virus cfr case fatality rate high flu use infuse concern test course produce case expand testing produce case long pandemic use simple test kit trick convert bad flu pneumonia case new actually exist say run scam country sure fear message run high people feel panicky able think critically problem overcome fact actual new deadly pathogen regular sick people mean death new deadly pathogen go way low real new deadly virus pandemic say overcome following way happen 1 claim beginning death imminent underpin fantasy computer projection use excuse quarantine claim quarantine prevent expect million dead 2 people minimize danger irresponsible bully talk number 3

dead 2 people minimize danger irresponsible bully talk number 3 talk crap number hope blind people pseudoscience 4 start test people course likely shred coronavirus rna inflate case figure asymptomatic carrier course spin sound deadly virologist know symptom case deadly pathogen scientist say simple step entirely manufacture pandemic run week analysis early hoax brilliantly prophetic actually unfold pull information recent chapter simple 1 2 3 delude virtually entire human population believe virus exist covid case test positive test test virus covid death die cause 28 day long test positive test test asymptomatic mean wrong claim pass

justify lock quarantine healthy people totality foundation hoax simple study involve million people wuhan publish november 2020 demolish lie symptom pass virus find 300 asymptomatic case trace contact find detect virus asymptomatic patient contact isolate week change know crap go claim symptom transmit virus produce evidence world health organization official dr maria van kerkhove head emerge disease zoonosis unit say early june 2020 doubt validity asymptomatic transmission say datum rare asymptomatic person actually transmit onward secondary individual rare mean cite case asymptomatic transmission ferguson factor problem cult head march 2020 script lockdown start despite manipulation case death figure people allege die covid justify mass house arrest overcome way scientist describe claim beginning death imminent use excuse quarantine claim quarantine prevent expect million dead enter professor neil ferguson gates fund epidemiologist gates fund imperial college london ferguson britain christian drosten dire record predict health outcome call advise government health outcome crisis come strange ridiculous thing turn policy guidance people history monumentally wrong ah make sense cult point view expert produce prediction suit cult agenda societal transformation neil ferguson reveal horrific clearly insane computer model prediction allow lockdown impose britain united states country ferguson level biology appear formal training computer modelling medicine epidemiology accord derek winton

appear formal training computer modelling medicine epidemiology accord derek winton msc computational intelligence write article somewhat aghast ferguson include take account respiratory disease seasonality mean far bad winter month think respiratory disease bad winter certainly massively china connect imperial college bizarre professor provide excuse long incubate chinese model human control travel westward lightning speed imperial college confirm website collaborate chinese research institute publish 600 research paper year

chinese research institution 225 chinese staff 2,600 chinese student big international group

7,000 student live china large group outside uk select tour china president xi jinping state visit uk 2015 college take major donation china describe uk number university collaborator chinese research institution china

communist fascist government appear phase woeful prediction ferguson imperial lockdown ferguson induce college sign five year collaboration deal china tech giant huawei huawei indoor 5 g network equipment instal college west london tech campus ai cloud platform deal include chinese sponsorship imperial venture catalyst entrepreneurship competition imperial example enormous influence chinese government british north american university research centre afield 200 academic dozen uk university investigate suspicion unintentionally help chinese government build weapon mass destruction transfer world lead research advanced military technology aircrağ missile design cyberweapon similar scandal break united states coincidence imperial college serve agenda way include promotion aspect united nations agenda 21/2030 great reset produce computer model human cause climate change happen real world imperial college drive climate agenda drive covid agenda cult hoax patrick vallance uk government chief scientific adviser covid name chief scientific adviser un climate change conference know cop26 host government glasgow scotland covid climate fundamentally connect imperial bosom come neil ferguson advise government despite previous disaster announce early key people like uk chief medical adviser chris whiĵy catch virus propaganda story sell manage survive prime minister boris johnson admiĵe hospital say severe version virus period policy demeanour change return downing street small world government advisor especially communal connection gates ferguson partner whiĵy write paper call infectious disease tough choice reduce ebola transmission involve scare story happen ferguson model predict to150 000 die mad cow disease bse version sheep transmiĵe human bse transmiĵe instead trigger organophosphate pesticide treat pest cow few 200 death follow human form model ferguson fellow incompetent lead unnecessary culling million pig caĵle sheep foot mouth outbreak 2001 destroy life livelihood farmer family oğen spend decade build herd flock

vast number animal foot mouth contact infection expert cull professor roy anderson computer modeller imperial college specialise epidemiology human animal disease anderson serve bill

imperial college specialise epidemiology human animal disease anderson serve bill melinda gates grand challenges global health advisory board chair gates fund organisation gates precursor covid script ferguson back close school prolonged period swine flu pandemic 2009 say affect world population continue spread speed claim happen mate imperial college say news report say author epidemiologist disease modeller neil ferguson sit world health organisation emergency commiĵee outbreak say virus pandemic potential professor liam donaldson chris whiĵy day chief medical officer say bad case 30 percent british people infect swine flu 65,000 die ferguson donaldson prove correct end year number death aĵribute swine flu 392 term expert liberally apply unfortunately complete idiot

swine flu projection great glaxosmithkline gsk million roll pandemrix influenza vaccine lead brain damage child affected british government taxpayer pay £ 60 million compensation ağer gsk give immunity prosecution covid déjà vu swine flu suppose break mexico dr wolfgang wodarg german doctor member parliament critic covid hoax observe spread swine flu mexico city time say experience mexico city mild flu kill usual kill few people usual hype fear fact unique covid happen time ferguson report estimate project death toll bird flu h5n1 million fold bird flu vaccine maker killing scare background neil ferguson produce perfectly time computer model early 2020 predict half million people die britain draconian lockdown 2.2 million united states politician panic people panic lockdown allege short duration instigate flaĵen curve case glean test test virus say time public forget short duration bit agenda destroy livelihood population force mass control dependency go short american researcher daniel horowitz describe consequence model spew gates fund ferguson imperial lead government government country panic single imperial college uk study fund global warming activist predict 2.2 million death lock country addition reported 8 9 death rate italy scare think

mutation virus get come fact finally test ability actually report new case think head death spiral flatten curve know curve start start give want investigation german news outlet welt sonntag world sunday reveal march 2020 german government gather leading scientist research institute university produce model paper serve legitimization tough political measure cult agenda justifie computer modelling base evidence reality specifically construct justify cult demand lockdown world destroy independent livelihood global population modeller responsible covid hoax date trial like nuremberg ağer world war nazis face consequence war crime corrupt- belief

modeller write paper accord government instruction say lockdown measure liğe million germans die covid-19 add die agonizingly home gasp breath unable treat hospital cope lie maĵer give cult want long time government modeller neil ferguson uk united states lockdown half million die britain 2.2 million americans theme modeller crucial lockdown strategy look background follow money researcher rosemary frei produce excellent article headline modelling paper mafiosi highlight guy call john edmunds british epidemiologist professor faculty epidemiology population health london school hygiene tropical medicine study imperial college edmunds member government covid advisory body dictate policy new emerge respiratory virus threats advisory group nervtag scientific advisory group ferguson member nervtag sage lead way original virus edmunds follow variant stage especially call uk kent variant know variant concern voc b.1.1.7 say co wrĵen report centre

mathematical modelling infectious diseases london school hygiene tropical medicine input centre covid-19 working group realistic possibility voc b.1.1.7 associate increase risk death compare non voc virus fear fear fear vaccine fear fear fear vaccine rosemary frei reveal paper author member modelling centre covid-19 working group receive funding bill melinda gates foundation and/or associate gates fund wellcome trust paper publish e journal medr χiv publish paper peer review journal establish organisation head facebook mark zuckerberg

missus small world frei discover edmunds scientific advisory board coalition epidemic preparedness innovations cepi establish bill melinda gates foundation klaus schwab davos world economic forum big pharma giant wellcome cepi launch davos 2017 develop vaccine stop future epidemic accord website mission accelerate development vaccine emerge infectious disease enable equitable access vaccine people outbreak kind people rosemary frei reveal public health england phe director susan hopkins author organisation non peer reviewed report new variant hopkins professor infectious disease london imperial college giğe ten million dollar year bill melinda gates foundation gates fund modelling disaster neil ferguson co author public health england report speak december 2020 potential danger b.1.1.7 uk variant promote gates fund modeller john edmunds come covid vaccine new variant show bollock people modeller lockdown obsess way demand cult demand edmunds say january 2021 ease lockdown soon disaster vaccinate widely elderly rosemary frei highlight edmunds marry jeanne pimenta describe linkedin profile director epidemiology glaxosmithkline gsk hold share company patrick vallance co chair sage government chief scientific adviser executive gsk defer bonus share company worth £ 600,000 gsk business connection bill gates collaborate mrna-'vaccine company curevac vaccine new variant edmunds talk gsk plan covid vaccine drug giant sanofi.

puppet prime minister boris johnson announce spring 2021 60 million vaccine dose gsk facility barnard castle english north east barnard castle population 6,000 famously visit breach lockdown rule april 2020 johnson aide dominic cummings say drive test eyesight drive london cummings beĵer advise test integrity long gsk facility visit sure patrick vallance happy arrange introduction tea biscuit ruthless psychopath gates fortune vaccine collaboration big pharma company gush phenomenal profit vaccine 20 to-1 return tell interviewer gates tweet december 2019 foreknowledge come foundation particularly excited year mean good buy global health vaccine modeller john edmunds

big promotor vaccine people appear dean london school hygiene tropical medicine faculty epidemiology population health primarily fund bill melinda gates foundation gates establish fund gavi vaccine alliance gates vehicle vaccinate world organisation doctors borders describe gavi aim support drug industry desire promote new product finde efficient sustainable mean fighte disease poverty psychopath gates create john edmunds say video london school hygiene tropical medicine involve aspect vaccine development include large scale clinical trial contend mathematical modelling vaccine protect individual society basis shit shit edmunds serve uk vaccine network ferguson government foremost covid adviser grim- faced dark eyed chris whiĵy vaccine network say work support government identify shortlist target investment opportunity promising vaccine vaccine technology help combat infectious disease epidemic potential address structural issue relate uk broad vaccine infrastructure ferguson act director imperial college vaccine impact modelling consortium funding bill melina gates foundation gates create gavi vaccine alliance wonder character vaccine answer problem ferguson wildly enthusiastic support gavi campaign vaccine child en masse poor country expect like gates constantly talk need reduce population want fund vaccine people alive sure john edmunds london school hygiene tropical medicine lshtm vaccines manufacturing innovation centre develop test commercialise vaccine rosemary frei write vaccine centre perform affiliated activity like combat vaccine hesitancy include vaccine confidence project project state purpose thing provide analysis guidance early response engagement public ensure sustained confidence vaccine immunisation vaccine confidence project director lshtm professor heidi larson decade research combat vaccine hesitancy bloody hell bloke like john edmunds neil ferguson connection financial tie model virus case death projection government especially way give paymaster like gates exactly want insane find world covid dangerous oops wait yes day ferguson nightmare scenario jackboot johnson britain china style lockdown save deadly virus uk government website gov.uk report different ferguson page official government guidance

high consequence infectious disease hcid say covid-19 19 march 2020 covid-19 long consider high consequence infectious disease hcid uk emphasis 4 nation public health hcid group interim recommendation january 2020 classify covid-19 hcid base consideration uk hcid criterion virus disease information available early stage outbreak know covid-19

public health body uk review date information covid-19 uk hcid criterion determine feature change particular information available mortality rate low overall great clinical awareness specific sensitive laboratory test availability continue increase advisory committee dangerous pathogens acdp opinion covid-19 long classify hcid soon ağer government expose downgrade risk upgrade singe cult hymn book ferguson fellow gates clone indicate lockdown restriction continue gates fund vaccine develop gates say ferguson like repeat gates script cult script flaĵen curve ongoing nightmare continue lockdown period severe restriction pursuit destroy independent income protect health cult give shit ferguson push vaccine solution own vaccine obsessive gates make fortune ferguson head vaccine impact modelling consortium imperial college fund gates foundation gavi vaccine alliance create gates personal vaccine promotion operation compound human catastrophe ferguson model create later expose break lockdown rule have sexual liaison married girlfriend antonia staats home live location husband child staats climate activist senior campaigner soros fund avaaz trust tell grass green ferguson resign government advisor hypocrisy 2020 ağer period quiet quote ridiculous medium need lockdown vaccine rollout government advise scientist imperial college hold fort absence say lockdown indefinite vaccine find cult script sing payrolle choir say intention go normal vaccine come vaccine different agenda discuss human 2.0 cult want let world normal destroy normal forever point happen house arrest close business school lockdown un)social distancing mask follow ferguson fantasy model predict people predictable vaccine arrive tell house arrest lockdown un)social distancing mask continue deal mask chapter fundamental pandemic mildly depth assessment figure reveal go cult fund control organisation genuine people work number involve genevieve briand assistant program director applied economics master

degree program johns hopkins university analyse impact covid-19 death cause united states official datum cdc period early february early september 2020

find allegedly covid relate death exceed heart disease find strange heart disease big cause fatality research significant note sudden decline 2020 non-'covid death trend completely contrary paĵern observe previous year total decrease death cause exactly equal increase death covid-19 game set match term happen johns hopkins university delete article ground support false dangerous inaccuracy impact pandemic expose scam official cdc figure confirme figure publish january 2021 effect people die heart aĵack cancer road accident gunshot wound have covid-19 death certificate diagnose symptom test positive test test virus kid gunshot wound way brenda bock coroner grand county colorado reveal gunshot victim test positive virus previous 30 day classifie covid death bock say people test positive covid kill gunshot wound kill say finishe investigation state list gunshot victim death virus death case figure covid-19

absolute joke repeat like parrot medium politician alleged medical expert official cult narrative town genevieve briand find death cause exceptional 2020 compare previous year spanish magazine publish figure say spain covid propaganda hotspot point discovery salud health medicine magazine quote government figure show 17,000 few people die spain 2020 2019 26,000 few 2018 age standardise mortality rate england wales age distribution take account significantly low 2020 1970s 80 90 ninth high 2000 post mortem autopsy virtually disappear covid death amid claim virus infect bodily fluid pose risk carry autopsy reject renowned german pathologist forensic doctor klaus püschel say staff 150 autopsy covid patient problem say need know covid patient suffere blood clot severe respiratory infection virus aĝer call sars severe acute respiratory syndrome highlight spring 2020 phenomenon quote new york intensive care doctor cameron kyle sidell post soon delete youtube video tell prepare treat infectious disease call covid-19 deal instead liken lung condition severely ill patient expect cabin depressurisation plane 30,000 foot drop everest oxygen acclimatisation say happen

small minority allege covid patient say cause phantom contagious virus kyle sidell say covid-19 disease tell come way operate medical paradigm untrue say believe treat wrong disease people slowly starve oxygen patient off oxygen mask state fear stress blue face brink death look like patient die pneumonia want autopsy virus exist condition people wish uncover add 5 g system millimetre wave rapidly introduce world 2020 fire 5 g earth satellite 60 gigahertz 5 g range frequency interact oxygen molecule stop people breathe sufficient oxygen absorb bloodstream instal 5 g school hospital world mad 5 g cause major change lung blood detail answer consequence label covid- 19 alleged symptom cause 5 g electromagnetic frequency cell respond radiation poisoning covid death scam dr scoĵ jensen

minnesota state senator medical doctor expose covid medicare payment incentive hospital death certificate manipulation say send seven page document department health coach fill death certificate happen document say need laboratory test covid-19 death certificate shock death certificate suppose fact jensen describe doctor encourage pressure diagnosis covid-19 think probable presume positive test necessary maĵere say doctor tell diagnose covid symptom cold allergy respiratory problem certainly influenza disappear covid era common sniffle dread verdict ontario authority decree single care home resident symptom long list lead isolation entire home courageous doctor like jensen point death figure manipulation death cause fall covid-19 death rise rate diagnosis video rarely survive long youtube cult support algorithm courtesy ceo susan wojcicki boss google figure tampering glaring ubiquitous official leĵe slip outright say uk chief scientific adviser patrick vallance say occasion covid death certificate mean covid cause death hell rare sight bbc reporter tell truth say successfully treat covid april discharge june run bus die person count covid death england bbc rest world medium go repeat case death figure real illinois public health director dr ngozi ezike reveal deceit boss clench buĵock hospice give week live find covid count covid death clear alternate cause list covid death list covid death mean cause death covid time death yes covid virus show exist test test test virus first period pandemic hoax spring 2020 process begin

designate covid death continue sit restaurant night listen loud conversation table family discuss bewilderment relative symptom covid die long term problem diagnose death virus understand bewilderment read book know medical fraud perpetrate world medium truth shock medium ignore evidence death certificate fraud eventually columnist speak see first hand bel mooney

long time national newspaper journalist britain currently work daily mail article february 19th 2021 carry headline dad ted pass covid test die chronic illness officially britain 120,000 victim virus far tell 99 year old father care home long stand chronic obstructive pulmonary disease vascular dementia maybe aware tell start virus refuse vaccine reason death unexpected give chronic health problem mooney say shocked find covid-19 declare cause death death certificate say bizarre unacceptable untruth man long time health problem test negative twice home virus shock story say highlight death certificate manipulation month confirmation professional time journalist realise go affecte directly know dad test positive negative irrelevant test test virus say believe conspiracy theory know sure conspiracy theorist term widespread circulation cia 1960 discredit accept ridiculous official story kennedy assassination blanket statement believe conspiracy theory bizarre dictionary definition term mean world drown conspiracy say dağ dad affecte covid conspiracy think covid-19 go death certificate people die fair see personal experience happen mince word mooney call care home morning february 9th tell father die sleep ask official cause death come covid-19 mooney challenge tell death covid dementia floor confirme test test virus consider reasonable assume doctor mooney rightly protest assumption diagnosis say blame perfectly decent death death certificate criminal offence bring account million job follow order wash new nuremberg trial first one mooney doctor assume presume tell follow order make difference action doctor job serve patient truth follow order world play central make covid hoax possible catastrophic consequence humanity shame answer action mooney say disquiet worsen register father death telephone tell registrar case like deceased test positive covid record cause death test

maĵer involve level think maĵer show callous disregard accurate diagnosis pressure come national health pyramid turn obey world health organization obey gates cult mooney say registrar agree distort national figure add

gates cult mooney say registrar agree distort national figure add strange thing winter record countless death flu winter ask registrar think death flu misdiagnose lump covid death answer puzzled yes mooney say funeral director say covid death covid lose count number family upset funeral company different country experience mooney write nightly shroud wave shocking close up pain impose tv news bewilder terrify population eager compliance lockdown invite save nhs grieve stranger real life love one shocking death count public imagine fear way covid-19 death statistic compile number great oh liĵle bit like 100 percent maths mooney ask country wish skew mortality figure wrongly certify death go believe conspiracy find answer conspiracy describe discover national scandal reality global scandal happen pillar conspiracy place buĵon press drosten pcr protocol high amplification produce case death certificate change secure illusory covid death mooney note normally doctor need certify death have know patient rule change spring 2020 allow doctor period covid death decree case covid-19 death certificate positive test symptom mooney ask 30,851 january 15 care home resident death covid-19 certificate 32.4 cent death far base assumption like father national psyche?'all answer first question devastate dismantle national psyche actually global psyche colossal scale uk case death data compile organisation like public health england phe office national statistics ons mooney highlight insane policy count death cause covid-19 happen 28 day positive test test test virus point ons statistic reflect death involve covid covid mean practice death covid-19 mention death certificate describe consequence fraud people accept narrative feed panicky government europe witness harsh measure enact totalitarian china jump lockdown headline covid death toll like knell bring doomsday fear stalk street politician parrot frankly ridiculous aim zero covid shut economy british people agree lockdown essential astonishingly patriotic brit want restriction lie death certificate mind grim toll life ruin

want restriction lie death certificate mind grim toll life ruin suicide school close rise inequality depression cancel hospital treatment cancer patient torture waiting poverty economic devastation loneliness family keep apart life lose direct result lockdown say join national chorus shock horror reach 120,000 death toll surely certain totally skew human cost lockdown justifie death figure british medical journal report 1,493 percent increase case child take great ormond street hospital abusive head injury effect family shocking thing family keep apart obey irrational change rule whim government believe statistic succumb fear generation reject war fight freedom dad god rest soul angry i. theme watch winter month death cause focus covid death summer british lung foundation say respiratory disease plummet 80 percent rage case way fascism population answer nazi eugenic 21st century elderly people care home isolate family month ağer lonely month contact relative grandchild ban see tell lockdown fascism protect vulnerable like elderly people time resuscitate dnr order place medical file need resuscitation covid-19 go death certificate old people protect cull murder truth dnr order decree disabled young people learning difficultie psychological problem uk care quality commission non departmental body department health social care find 34 percent work health social care pressure place aĵempt cardiopulmonary resuscitation order covid patient suffere disability learn difficultie involve patient family decision uk judge rule elderly woman dementia dna manipulate covid vaccine son wish man severe learning difficultie jab despite family objection mind die judiciary support doctor government

fascist dictatorship dare horrific video post show fascist officer los angeles police forcibly give covid shot woman special need scream want fascist see give jab sleep elderly woman care home straight nazi playbook hitler nazis commiĵe mass murder mentally ill physically disabled germany occupy territory programme know aktion t4 t4

sabbatian control hitler grotesque crazy set kill consider useless unnecessary reich commiĵee

scientific registering hereditary congenital illnesses register birth baby identifie physician defect 1941 5,000 child murder state estimate total number innocent people kill aktion t4 275,000 300,000 parent tell child send away special treatment return pathetic claim plan new extermination camp dismiss today force current event precisely 80 year ago margaret sanger cult operative birth control sanitise programme eugenic organisation found planned parenthood sanger propose dysgenic population choice segregation sterilization include epileptic feeble- minded prostitute sanger oppose charity perpetuate human waste reveal cult mentality think extermination camp conspiracy theory naivety touching breathtakingly stupid believe doctor act callous disregard patient worth consider doctor medical staff agree government decree dnr order medical file resuscitation call know people house nazis josef mengele school medicine phenomenal number old people die worldwide effect lockdown depression lack treatment vaccine later lose live common response start manufactured pandemic remove old people hospital bed transfer nursing home decision result mass cull elderly people home lack treatment covid care home whistleblower tell covid era begin doctor come home treat patient beg drug like antibiotic oğen come infamous example order new york governor andrew cuomo brother moronic cnn host amazingly give emmy award handling covid crisis ridiculous woker hand ridiculous see february 2021 department justice fbi investigation begin thousand old people new york die nursing home ağer discharge hospital way covid patient cuomo staff cover fact happen nice psychopath covid spin report say thousand old people test positive covid hospital transfer nursing home die covid transmit hospital ill fact test positive test test virus irrelevant ill oğen respiratory disease ubiquitous old people near end life transfer hospital mean treatment stop die old give damn expose book decade cult plan cull world old people introduce point demise pill certain age

cull world old people introduce point demise pill certain age law march 2021 spain legalise euthanasia assist suicide follow netherlands belgium luxembourg canada tiptoe demise pill treatment old people care home disgrace covid era caring staff know legion story callous

treatment old people family police call family come love one home light isolation kill prisoner state care home resident insane fascist ontario canada allow leave room covid hoax begin uk staff wheel elderly people away window family member talk oriana criscuolo stockport english north west drop off

thing 80 year old father parkinson disease dementia want wave ground-floor window tell illegal go close curtain middle day oriana unbelievable understand care home staff people pay care uncaring behaviour inhumane cruel belief right off.

way end life loveless circumstance uk registered nurse nicky millen proper old school nurse 40 year say start career care base dignity choice compassion empathy say thing important go window appalled people die love one say goodbye ipad nicky describe distressed 89 year old lady stroke face ask paracetamol finish off life long worth live see family nicky say humiliate ward staff patient leĵe lady stroke face give cuddle dehumanisation covid hoax bring surface nicky work care home patient tell hold prisoner want live die say lady tear see great grandson nicky compassionate old school meet psychopathic new normal say work covid ward covid patient jewish writer shai held write article march 2020 headline staggering heartless cruelty elderly describe happen early day lockdown say elderly consider group unique individual way woke shai held say notice familiar rhetoric dehumanization work elderly bunch faceless mass consider culprit effectively deserving suffering pandemic inflict lose entirely fact elderly individual human being distinctive face voice hope dream memory regret friendship marriage love lose love sustain elderly dehumanised group go result cold disregard right life distinctive face held talk design delete mask faceless war zone hospital myth medical professional tell go hospital overrun like war zone accord medium virtually mantra medical whistleblower use career citizen journalist world sneak hospital film evidence expose war zone lie largely close ward operating theatre meet hospital worker town isle wight first lockdown 2020 say island hospital quiet lockdown justifie psychopath stop hospital overrun time island hospital near

military arrive provide extra bed propaganda ramp fear ensure compliance fascism temporary hospital thousand bed know nightingales shiğ mortuary open criminal uk government man help install extra island bed aĵributed army say hospital doctor nurse stand talk mask social distancing accuse useless local island paper county press pump fear hospital overrun describe ambulance

island paper county press pump fear hospital overrun describe ambulance park crew outside deck chair brother call ambulance tell two- hour backlog call bullshit old lady island fall bad way caller ring ambulance tell situation urgent ambulance station work capacity people hear ambulance siren blare drive street live near station realise go follow leğ circulate urban area siren go come stop increase level fear go ventilator shortage crisis cost ten million hastily produce ventilator ambulance crew agree exploit way fear propaganda find mirror wish hospital obvious consequence treatment diagnosis non-'covid condition cancel involve hand death sentence people die home undiagnosed untreated cancer heart disease life- threaten condition allow hospital deal pandemic happen death innocent war zone lay off nursing staff doctor work lockdown justifie save life protect vulnerable actually kill dnr order prevent hospital overrun britain mantra stay home save nhs world story sell lie california doctor dan erickson artin massihi accelerated urgent care bakersfield hold news conference april 2020 intensive care unit california essentially hospital shuĵe floor treat patient lay off doctor california health system work minimum capacity geĵe rid doctor volume say people condition heart disease cancer come hospital fear covid- 19 video delete susan wojcicki cult own youtube ağer reach five million view florida governor ron desantis reject severe lockdown state governor give model claim run hospital bed day go happen modeller know deceit find level system urgent child operation cancel include fracture repair biopsy spot cancer eric nicholls consultant paediatrician say obviously concerning need return normal operating increase capacity soon possible psychopath power concerned psychopath deletion urgent care diagnosis happen world kid die result action cold heartless lunatic dictate health policy

number stratospheric richard sullivan professor cancer global health king college london say people fear covid cancer campaign fear year lost life

dramatic sullivan say huge avoidable mortality sarah woolnough executive director policy cancer research uk say 75 percent drop urgent referral hospital family doctor people suspect cancer sullivan say lot service scale see dramatic decrease elective cancer surgery lockdown death worldwide absolutely fantastic new york post report datum confirme lockdown

end life save sharp decline visit emergency room increase fatal heart attack patient receive prompt treatment few people screen cancer social isolation contribute excess death dementia alzheimer researcher predict social economic upheaval lead ten thousand death despair drug overdose alcoholism suicide unemployment surge mental health substance abuse treatment program interrupt report level anxiety depression suicidal thought increase dramatically alcohol sale fatal drug overdose happen nurse staff time hand war zone tic tok dancing video begin appear internet medical staff dance ward corridor people die home cause normally treat hospital mention dispatch brave truth commiĵe whistleblower louise hampton handler uk nhs viral internet video say fuck pandemic load bollock say covid-19 rebrande flu course lose job happen medical endless profession tell truth louise filme inside war zone accident emergency department mean mainstream medium blow gaff conspiracy eternal shame journalist capable manifest shame psychopath slavishly repeat question relative admiĵe health problem leğ die love one allow covid rule include kid die comfort mum dad bedside evil damn good fun scoĵish nhs staff nurse publicly quit spring 2021 say long lie corruption government say hospital bed bed shut ward shut hospital busy covid staff nurse say nicola sturgeon tragically leader scoĵish government television say save hospital nhs bed see flu flu year write government speak union unison union cult compromise useless change colleague scare lose job speak want say nursing staff affecte wear mask day head spliĵe shiğ wear mask nhs fascist tyranny dismantle start human being charge ironically hospital report busy official covid case

fall spring summer 2021 condition require treatment time fake vaccine rollout cover covid vaccine scam detail later indicator sickening disregard human life highlight dna manipulate concoction fulfil definition vaccine human give emergency approval trial complete continue unknowing public result nhs senior nurse responsibility vaccine procedure say genocide say

result nhs senior nurse responsibility vaccine procedure say genocide say vaccine vaccine show safe claim effectiveness drug company poetic licence describe happen horrid act human annihilation nurse say management instigate policy provide patient information

leaflet pil people vaccinate health care professional suppose accord protocol patient tell take ongoing clinical trial challenge happen see exclude meeting ridicule say tell watch step find surplus requirement nurse speak anonymously fear career say ask nhs manager content take genocide have vaccine reply play shut government lean heavily nhs management clearly lean heavily staff. global medical hierarchy operate start cult world health tell story doctor pfizer jab question idea doctor read literature stop treat doctor intellectual giant moral medical pygmy doctor know vaccine fully approve trial ongoing ask patient mind take follow up research purpose yes ongoing clinical trial nurse say doctor ignorance rare speak hospital consultant jab idea background trial complete nurse pharmacist show ignorance nhs colleague forsake duty care break code conduct hippocratic oath brainwash majority uk public propaganda say able recruit single nhs colleague doctor nurse pharmacist stand speak union refuse help say genocide come light hesitate evidence nuremberg type trial power affected outcome nonsense perspective let virus exist let completely crazy accept official manipulate figure case death accurate study stanford university epidemiologist dr john ioannidis publish world health organization website produce average infection fatality rate 0.23 percent ioannidis say sample equally location globally median infection fatality rate substantially low 0.23 observe analysis healthy people 70 0.05 percent compare 3.4 percent claim cult own world health organization hoax first play maximum fear need generate update stanford study

april 2021 infection fatality rate 0.15 percent team scientist lead megan o'driscoll henrik salje study datum 45 country publish finding nature website child young people figure small virtually register authority hype danger young introduce dna- manipulate vaccine child o'driscoll study produce average infection fatality figure 0.003

child birth 0.001 5 14 0.003 15 19 0.456 64 claim child vaccinate protect covid obvious lie reason average age covid death akin average age people die general average age death england 80 man 83 woman average age death allege covid 82 83 california doctor dan erickson artin massihi say april medium conference projection model million death woefully inaccurate produce detailed figure show californians 0.03 chance die covid base number people test positive test test virus erickson say 0.1 percent chance die covid state new york city 0.05 percent chance spain centre covid-19 hysteria stage stanford study support doctor datum fatality rate estimate 0.23 0.15 percent close figure estimate zero death rate figure claim world health organization start hoax 15 time high california doctor say justification lockdown economic devastation cause learn quarantine quarantine sick healthy see medical light government medical system world billion house arrest lose livelihood case lose mind health life force people wear mask dangerous health psychology human interaction family interaction criminal offence ban travel close restaurant bar watch live sport concert theatre activity involve human togetherness discourse close school isolate child friend cause commit suicide act hopelessness despair california doctor say lockdown consequence include increase child abuse partner abuse alcoholism depression impact see day entire human race mentally ill psychopath unimaginable extreme like bill gates face reality deal come denial fascism tyranny possible target population submiĵe acquiesce fascism tyranny human history show true people naively unquestioning believe tell deadly virus meekly weakly submiĵe house arrest believe total submiĵe fear draconian fine impose brutal policing psychopath psychopath condemnation meek weak condemn pushbackers behalf force gunsight pathetic begin suffice britain brainless

health secretary maĵ hancock warn lie border official return list hotspot country face jail sentence year racially aggravate assault incest aĵempte sex child 13 hancock lunatic state apparatus cult lead chain reaction uk vaccine minister nadhim zahawi prominent member mega cult secret society le cercle feature early book cult enforce government medical system government medical system enforce business police business enforce staff enforce customer police enforce cult population play essential create world fascist control child grandchild live entire life hierarchical pyramid imposition acquiescence yes indeedy clinical insanity bright read book ask answer think reveal few syllable tell psycho moronic lackey fuck off let life war mind believe thing condition believe aldous huxley brave new world describe covid hoax psyop true sense level accordance definition term psychological warfare break covid pandemic foundation theme psychological warfare human individual collective mind say entire human belief system involve subject imagine huxley right contention people believe condition believe come repetition life falsehood spew government corporation medium endless stream expert tell cult want believe oğen believe far expert reward prestigious job title agent perceptual programming regular access medium cult control narrative control information lose control vital crucial prevail public perception reality foundation control today internet possible defense advanced research projects agency darpa incredibly sinister technological arm pentagon internet result military technology darpa openly brag establish internet long term project lasso mind global population say decade plan control information extreme eventually hear cult approve close end ferocious censorship covid hoax begin case start 1990 term book speaking venue create publishing company 1995 precisely publish book think secure total control information need internet pre programmed algorithm seek unclean content deletion stop post first place cult dismantle print non internet broadcast medium ensure transfer information appropriate name web critical expression cult web see quicken demise traditional medium control leğ

expression cult web see quicken demise traditional medium control leğ tiny number corporation operate worldwide independent journalism mainstream dead obvious turn 2020 cult want information communicate internet globally censor allow plug pull time lockdown forced isolation mean communication people electronic mean long face face discourse discussion cult psychopath target bar restaurant sport venue meeting place general reason chance stop people gather kind privacy number able track monitor internet communication block necessary private message individual censor fascist control cult front like facebook twiĵer google youtube officially run sabbatian place people background high level sabbatian place people facebook google amazon like seed fund support existence money object infusion fund directly indirectly darpa cia technology arm q tel cult play long game prepare carefully big play like covid amazon psychological war preĵy control global market book sale increasingly publishing amazon limitless fund delete fantastic number independent publisher seize global domination way decide book sell circulate move direction happen amazon leading light jeff bezos grandson lawrence preston gise work darpa predecessor arpa amazon big connection cia pentagon plan long describe go like 1 employ military technology establish internet 2 sell internet place people freely communicate censorship allow happen net central irreversible pillar human society internet highly censor start reject 3 fund manipulate major corporation control circulation information internet cover story geek garage explain come unlimited fund expand rapidly need profit year non cult company need balance book compete know circumstance googles youtubes facebooks amazons go secure near monopoly crush buy opposition 4 allow freedom expression internet communication platform draw people internet central irreversible pillar human society communication corporation reach stage near monopoly domination 5 unleash plan frenzy censorship basis go continue expand remain cult want human target process time hit covid hoax ensure good chance possible control narrative know cost ağer unleash deadly virus

chance possible control narrative know cost ağer unleash deadly virus exist environment

free-flowe information opinion dead water gates psychopath network place cult create own world health organization dictate covid narrative response policy slavishly support cult own internet communication giant mainstream medium tell different story censor google youtube facebook twiĵer openly announce expect cult own operation like facebook executive confirmed set platform addictive cigareĵe coldly manipulate emotion user sow division people group scramble mind young zuckerberg live rest life go jail crime humanity emphatically young travesty justice maĵer cause effect catch eventually sergey brin larry page google ceo sundar pichai fix google search result promote cult narrative hide opposition key word google search engine like duckduckgo different result

wikipedia intensely biased encyclopaedia skew content cult agenda youtube link wikipedia version covid climate change video page expert field offer different opinion increasingly rare wojcicki censorship covid silence- network add government medium censor sorry regulator ofcom uk impose tyrannical restriction british broadcaster effect ban appear debate evidence view covid mean break fascistic imposition ofcom ceo career government bureaucrat melanie dawes

gutless british broadcaster tremble thought fascist psycho covid reason covid catastrophe facet form see drive policy worldwide coordinated way decision protect health target psychology dominant group guide advise government policy medical professional psychologist behavioural scientist major country version phenomenon use british example work way british version affecte wide world form huge behaviour manipulation network uk operate country network involve private company government intelligence military cabinet office centre government covid psyop own innovation charity nesta behavioural insights team bit claim independent government patently bit establish 2010 job manipulate psyche population acquiesce government demand know nudge unit inspire 2009 book ultra- zionist cass sunstein richard thaler call nudge improve decision health wealth happiness book

behavioural insights team seek nudge behaviour manipulate public follow paĵern action perception suit authority cult sunstein skilled advise world health organization uk behavioural insights team administrator white house office information regulatory affairs obama administration biden appoint department homeland security ultra zionist fold oversee new immigration law policy cult want control sunstein desperate silence expose conspiracy co author 2008 report subject suggestion offere ban conspiracy theorizing impose kind tax financial disseminate theory guess psychiatrist chair question sunstein mate richard thaler academic affiliate uk behavioural insights team proponent behavioural economic define study effect psychological cognitive emotional cultural social factor decision individual institution study effect manipulate want lead name development behavioural economic ultra- zionists daniel kahneman robert j. shiller thaler win nobel memorial prize economic sciences work field behavioural insights team operate heart uk government expand globally partnership university include harvard oxford cambridge university college london ucl pennsylvania claim train reframe 20,000 civil servant run 750 project involve 400 randomised controlled trial dozen country version mind reframer common purpose bit work office new york city agency partner united states canada company own british government cabinet office executive order

president cult servant obama establish social behavioral sciences team 2015 reason brainwash population directly brainwash position covid mind game prime aspect uk mind control network independent joke scientific pandemic insights group behaviours spi b provide behavioural science advice aim anticipate help people adhere intervention recommend medical epidemiological expert mean manipulate public perception behaviour government tell disgusting want public safe lot lock key accord government website spi b consist behavioural scientist health social psychologist anthropologist historian advise whiĵy vallance lead scientific advisory group emergencies sage turn advise government science covid policy politician guide science rabble country talk science dominate behaviour manipulator enforce government fascism public compliance behaviour insight team head psychologist david

solomon halpern visit professor king college london connect national global web civilian military organisation cult move goal fuse fascistic country fusion doctrine behaviour manipulation network involve confine foreign office national security council government communication headquarter gchq mi5 mi6 cabinet office base media monitoring unit rapid response unit monitor digital trend spot emerge issue include misinformation disinformation identifie good way respond 77th brigade uk military operate like notorious israeli military unit 8200 manipulate information discussion internet pose member public promote narrative discredit challenge military seek manipulate domestic public opinion nazis government fine

conservative member parliament tobias ellwood advocate lockdown control vaccine passport lieutenant colonel reservist 77th brigade connect military operation jhub innovation centre ministry defence strategic command jhub involve civilian national health service nhs symptom trace population nhs key mind control network produce document december 2020 explain staff use psychological manipulation different group age dna manipulate covid vaccine design cumulatively rewrite human genetic document call optimising vaccination roll not messaging document communication wide sense publish nhs england nhs improvement behaviour change unit partnership public health england warwick business school hear mantra save nhs protect nhs need scrap nhs start current version far corrupt far anti human totally compromise cult operative asset uk government broadcast medium censor ofcom connect web bbc tremendous ofcom influence control public hear dictate mass perception nuremberg trial include personnel fear factor covid hoax lead creation uk cabinet office- connect joint biosecurity centre jbc officially describe provide expert advice pandemic independent cult operation independent analytical function provide real time analysis infection outbreak identify respond outbreak covid-19 role advise government response spike infection example close school workplace local area infection level rise way promote cult agenda joint biosecurity centre model joint terrorism analysis centre analyse intelligence set terrorism threat level fusion civilian military operation intelligence lead military intelligence produce document

vaccine hesitancy combat domestic civilian maĵer opinion business military joint biosecurity centre head tom hurd director general office security counter terrorism establishment its-fingertip hurd family father foreign secretary douglas hurd coincidental tom hurd go elite eton college oxford university boris johnson imperial college ridiculous computer modeller neil ferguson connect gigantic web interconnect similar set up major major country compare cult network politician boris johnson donald trump joe biden bit player follow science network psychologist covid case start aim generate maximum fear virus ensure compliance population government behavioural science group know

fear virus ensure compliance population government behavioural science group know spi b produce paper march 2020 discussion main government science advisory group know sage head options increase adherence social distancing measure say following section head persuasion substantial number people feel sufficiently personally threatened reassure low death rate demographic group level concern rise have good understanding risk find positively

associate adoption covid-19 social distancing measure hong kong perceive level personal threat need increase complacent hard hiĵe evaluation option increase social distance emotional messaging effective empower people make clear action reduce threat responsibility insufficient understanding feeling responsibility people role transmiĵe infection message action need frame positively term protect oneself community increase confidence effective people persuade appeal play rule duty community personal risk different approach need messaging need account reality different people life messaging need account different motivational lever circumstance different people achieve spi b psychologist say medium increase sense personal threat translate terrify shit population include child want happen excuse journalist know journalism bite arse great majority play crucial serve cult- government psyop enslave kid grandkid live idea psychological war underpin constant government covid propaganda television radio ad break plus internet print medium pound fear taxpayer foot bill

programming result people terrifie virus exist tiny fatality rate believe people walk street shop wear face nappy damage health psychology report refuse naïve police turn face nappy cameraman come flat frightened covid come wear mask refuse shake hand case catch naïveitis thought work mainstream medium depressing behaviour perfectly explainable fear grip mind freeze compliance carefully cultivate psychologist psychopath life destroy lot young people commit suicide show plan work spi b turn compulsion public comply adequate preparation rapid change achieve say country introduce mandatory self isolation wide scale evidence major public unrest large majority uk population appear supportive coercive measure 64 percent adult say support puĵe london lockdown watch poll design people believe public opinion favour subject hand aggressive protective measure effective spi b paper say special aĵention devote population group risk translate orwellian mean make rest population feel guilty protect vulnerable old people cult agency kill industrial scale lockdown lack treatment gates vaccine psychopath psychologist sell guilt trip comprehensively los angeles county

vaccine psychopath psychologist sell guilt trip comprehensively los angeles county supervisor hilda solis report child apologise distance parent grandparent bring covid home geĵe sick apology word love one hear die say gut wrenchingly solis childhood tragedy tell child stay home love one alive imagine heap potentially life long guilt kid absolutely people deeply disturb psychologist uncivil war divide rule professional mind controller spi b want medium increase sense responsibility tell promote positive messaging action contrast invoke social disapproval unquestioning obedient community mind compliant goebbels like medium oblige old old trick employ tyranny world human history target population target population line line spi b say play important role prevent anti social behaviour discourage failure enact pro social behaviour anti social orwellian parlance spi b behaviour government approve spi b recommendation say social disapproval accompany clear messaging promotion strong collective identity government celebrity mantra sure mind doctor contempt target think

clueless comedian actor singer tell government want win uk comedian lenny henry actor michael caine singer elton john wheel serve propagandist urge people dna manipulate covid non-'vaccine role henry fellow black celebrity seek coax vaccine especially stomach turn emotion manipulate script carefully edit video feature black celeb insult intelligence black people self respect involve sell soul fascist government agenda henry say hear black people legitimate worry exactly have vaccine include obligatory reference black lives maĵer line let coronavirus cost black life maĵer god pathetic know vaccine safe comedian say script spi b say social disapproval need carefully manage avoid victimisation scapegoating misdirected criticism know recommendation lead exactly medium specifically stir divide conquer hostility conform like good liĵle baa baas praise see tidal wave lie covidiot awake abuse fast asleep conform fascism imposition awake know design endanger health dehumanise tear asunder fabric human society curtain- twitcher moron report neighbour face- nappie police break

society curtain- twitcher moron report neighbour face- nappie police break covid rule fascist police delight post link phone number cult impose compliant police military compliant population willing play enslave kid word pastor nazi germany appropriate today come socialist speak socialist come trade unionist speak trade come jews speak jew come leave speak learn history destine repeat covid rule rewire mind background lay gigantic national global web psychological manipulation covid rule clear sinister perspective forget claim protect health covid rule dismantle human mind break human spirit destroy self respect puĵe humpty dumpty servile submissive slave social isolation lockdown distancing devastating effect human psyche psychological psychopath know real reason human need contact discourse closeness touch eventually literarily crazy mask address length fundamentally add effect isolation cult agenda dehumanise de individualise population know fact seek outcome epitome evil psychologist involve epitome evil like rest cult demon asset stand trial crime humanity scale defie imagination psychopath uniform use isolation break enemy troop agent subservient submissive tell know technique rightly consider form torture torture certainly impose human

clinically insane american psychologist harry harlow famous isolation experiment 1950 separate baby monkey mother imprison month end metal container pit despair soon begin mental distress depression idiot predict harlow monkey steel chamber month deny contact animal human say effect total social isolation month devastating debilitating assume initially month isolation produce additional decrement month isolation obliterate animal socially cult partial isolation allow form relationship monkey aggressive hostile body see young consequence lockdown uk government psychopath launch public relation campaign tell people hug ağer receive covid-19 vaccine tell lie allow return normal life government source

tell telegraph line great vaccinate go visit family hug grandchild chance go infect people love source apparently speak secure psychiatric facility janet lord director birmingham university institute inflammation ageing say parent grandparent avoid hug child ms lord fuck off.

yep destroy kid parent observe happen people enslave isolate lockdown suicide self harm soar worldwide particularly young deny freedom associate friend study 49,000 people english speak country conclude half young adult clinical risk mental health disorder national survey america 1,000 currently enrol high school college student find 5 percent report aĵempte suicide pandemic data cdc national syndromic surveillance program january 1st october 17th 2020 reveal 31 percent increase mental health issue adolescent age 12 17 compare 2019 cdc report america general suffere big drop life expectancy world war fall year first half 2020 result death despair overdose suicide death despair leap 20 percent lockdown include high number fatal overdose record single year 81,000 internet addiction consequence isolate home lower interest physical activity kid fall inertia point child young people lose hope give life literally 14 year old boy kill maryland give school district reopen 11 year old boy shoot zoom class teenager maine succumb isolation pandemic end life ağer experience disrupted senior year school child young take life story repeat world career destroy start include sport promising youngster able plan psycho psychologist work right researcher cambridge

university find lockdown cause significant harm child mental health study publish archives disease childhood follow 168 child age 7 11 researcher conclude uk lockdown child depression symptom increase substantially relative lockdown scale effect direct relevance continuation different element lockdown policy complete partial school closure specifically observe statistically significant increase rating depression medium large effect size finding emphasise need incorporate potential impact lockdown child mental health plan ongoing response global pandemic recovery chance cult psycho psychologist geĵe exactly want uk royal college paediatrics child health urge parent look sign eating disorder child young people ağer fold increase specialist pandemic major reason rise college say isolation friend school closure exam cancellation loss extra curricular activity like

friend school closure exam cancellation loss extra curricular activity like sport increase use social media contributory factor fear virus psycho psychologist family finance student force quarantine doctor say young people severely ill time see covid regulation reduce face face consultation young devastate psychopath like bully coward cult target young elderly weak infirm typical story tell british lady call lynn parker allow visit husband 2020 half month life need march 20th die december 19th vacate criminal enter territory evil emotional impact immune system immense number people age worldwide die result cult demand gates demand lockdown isolation torture experience impose solitary confinement million prisoner world show large percentage actively psychotic and/or acutely suicidal social isolation find trigger specific psychiatric syndrome characterize hallucination panic aĵack overt paranoia diminished impulse control hypersensitivity external stimulus difficultie thinking concentration memory juan mendez united nations rapporteur investigator say isolation form torture research show ağer isolation prisoner find far difficult social connection remember chaĵe shop assistant ağer lockdown tell young son meet child idea act hannah flanagan director emergency services journey mental health center dane county wisconsin say specificity covid social distancing isolation come contribute factor suicide

new year new devise geĵe effect want population psychologically dismantle rebuild totally different way child young particularly target adult fascist ai control technocracy plan impose prepare meekly submit time old people memory life like fascist new normal delete go effort turn young old support geriatric genocide hannah flanagan say big increase suicide county prove social isolation harmful deadly study show isolation main risk factor suicide woman warning lockdown create perfect storm suicide ignore ağer reason lockdown suicide extreme isolation consequence dr dhruv khullar assistant professor healthcare policy weill cornell medical college say new york times article 2016 long fake pandemic wave new research suggest social separation bad individual social connection disrupt sleep pattern alter immune system inflammation high level stress hormone recent study find isolation increase risk heart disease 29 percent stroke 32 percent analysis pool datum 70 study 3.4 million people find socially isolate individual 30 percent high risk die seven year effect large middle age loneliness accelerate cognitive decline old adult isolate individual twice likely die prematurely robust social interaction effect start early socially isolate child significantly poor health 20 year later control factor tell loneliness important risk factor early death obesity smoking proof article year 2020 enforce lockdown social distancing isolation know effect professional psychologist drive policy globe year 2000 2003 start major study effect isolation health dr janine gronewold professor dirk m. hermann university hospital essen germany analyse datum 4,316 people

average age 59 recruit long term research project find socially isolated people 40 percent likely heart aĵack stroke major cardiovascular event nearly 50 percent likely die cause give financial armageddon unleash lockdown note study find relationship increase cardiovascular risk lack financial support ağer exclude factor social isolation connect 44 percent increase risk cardiovascular problem 47 percent increase risk death cause lack financial support associate 30 percent increase risk cardiovascular health event dr gronewold say know time feel lonely lack contact close friend family impact physical health study show have strong social

relationship high importance heart health gronewold say understand people socially isolated poor health outcome obviously worrying finding particularly time prolong social distancing explain level identify point body people feel loneliness miss people part centre chest feel ache loneliness ache miss people heart ache heart ache company explain chapter escape wetiko realise body mind expression reason state mind dictate state body clear american psychologist ranjit powar highlight effect lockdown isolation early april 2020 say human evolve social creature wire live interactive group isolate family friend colleague unbalancing traumatic people result short long term psychological physical health problem increase level anxiety aggression depression forgetfulness hallucination possible psychological effect isolation mental condition precipitate underlie pre existing susceptibility pre condition powar say personal relationship help cope stress lose outlet leĵe off steam result big emotional void average person difficult deal day isolation cause increase level anxiety depression hell effect global population

18 month time writing powar say add loom threat dreadful disease repeatedly hammer medium recipe shade mental physical distress house garden easy forget billion endure lockdown isolation tiny overcrowded flat apartment outside psychological physical consequence unimaginable lunatic abusive partner parent consequence lead tremendous increase domestic child abuse alcoholism people seek shut horror ranjit powar say stay confined space family rosy picture extremely oppressive claustrophobic large low income family huddle small single room house child lucky board electronic game book occupied add deep insecurity run fund food basic necessity hand people dysfunctional family dynamic domineering abusive alcoholic partner sibling parent make stay home period trial incidence suicide physical abuse woman show worldwide increase heightened anxiety depression affect person immune system make susceptible illness think powar article publish april 11th 2020 social unsocial distancing demand people stay foot metre apart uk government advisor robert dingwall new emerge respiratory virus threats advisory group say radio interview metre rule

conjure base science base medical science come distance relate psychological science foot metre adopt country tell people like criminal anthony fauci ilk found science school reopen space six- foot distancing march 2021 ağer year foot science study publish journal infectious diseases involve 500,000 student 100,000 staff 16 week reveal significant difference covid case foot foot fauci change tune foot okay difference foot inch virus get away foot psychological reason long hear journalist talk unintended consequence lockdown unintended coldly calculate specific outcome human control super psychopath like gates call vehemently super psychopath psychologist demand psychopathic clueless spineless politician go follow science science science people manipulate believe covid catastrophe found mind control word statement mantra issue uk government know mind control technique stay home protect nhs save life stay alert control virus save life hand face space vocal proponent extreme covid rule uk professor susan michie member

vocal proponent extreme covid rule uk professor susan michie member british communist party medical professional michie director centre behaviour change university college london behavioural psychologist filthy rich marxist praise china draconian lockdown know fellow student oxford university stalin nanny extreme marxism michie influential member uk government scientific advisory group emergencies sage behavioural manipulation group dominate covid policy consultant adviser world health organization covid-19 behaviour hell lockdown claim health behavioural psychologist group charge change behaviour public want lockdown human isolation mandatory mask question need answer michie absolutely explain nuremberg court humanity take world consequence mask demand compulsory michie classic benefit get primary school child wear mask regardless little degree transmission occur age group help normalise practice young child wear mask likely family accept mask word carry prison sentence ponder callous disregard child involve statement make mind motivation susan michie lovely lady say encapsulate mentality psychopath covid horror let compare michie say countrywide study germany publish researchsquare.com involve 25,000 school

child 17,854 health complaint submiĵe parent researcher find mask harm child physically psychologically behaviourally 24 health issue associate mask wearing include shortness breath 29.7 dizziness 26.4 increase headache 53 difficulty concentrating 50 drowsiness fatigue 37 malaise 42 nearly child experience sleep issue quarter develop new fear researcher find health issue impairment 68 percent masked child cover face average 4.5 hour day hundred take experience accelerated respiration tightness chest weakness short term impairment consciousness reminder michie say benefit get primary school child wear mask regardless little degree transmission occur age group help normalise practice young child wear mask likely family accept mask psychopath government psychology child young people plus adult wear mask hour end clueless teacher impose psychopath cult lab rat school impose student microchippe buzzer activate close pal way lab rat apt cult brain dead servant child lab rat condition unquestioning dehumanised

cult brain dead servant child lab rat condition unquestioning dehumanised slave rest life child young people wean frighten away natural human instinct include closeness touch track book year school ban pupil greet hug cult induce movement terrifie man boy relaxed natural interaction female friend work colleague point man try room woman partner airhead celebrity play virtue signal make happen gross exaggeration monster like harvey weinstein

ten thousand man treat woman like brand policy change monster go word dehumanise time chapter cult seek go deep shall let kid social distancing plan end day idea see government company fund produce wearable gadget people apart tech start company back gchq british intelligence military surveillance headquarter create social distance wrist sensor alert people close cia support tech company develop similar device wearable sensor develop tended number start company support gchq cia darpa device wear wrist tag waistband vibrate wear device breach social distancing get near natural human contact company lucky break develop distance sensor covid hoax arrive immediately provide potentially enormous market fortunate

government big time cult control ontario canada invest $ 2.5 million wearable contact tracing technology alert user expose covid-19 workplace beep vibrate foot person facedrive inc.

technology company found 2016 funding ontario fund obviously prophet board director human surveillance control technology call tracescan wear human cyborg place airport workplace construction site care home school emphasise school child young people prime target know plan society eye school place state program generation slave compliant worker ant woker ants day mist covid madness transform mind laboratory scale see teacher head teacher program kid oğen child keep apart human interaction walk lane classroom distancing stagger meal time mask rolling buzzer system school physically lay laboratory maze lab rat lunatic school anchorage alaska prosecute child abuse take away desk force child kneel know place mat five hour day wear mask chair desk suppose impact virus clinically insane people tell clap trap school ban recess interaction art class creativity physical exercise geĵe body mind move inertia outrage jail beĵer mental institution behavioural manipulator dystopian approach school professor susan michie mind doctor british communist party member say wrong school safe distance mask ventilation siĵe day cold ask lady round dinner night know go week probably able visit psychologist block book know shocking behaviour manipulator like michie want wear mask long feature mind control program like infamous mkultra united states live learn spend year 1996 right millennium research mind control detail side atlantic meet large number mind control survivor hold captive body mind mkultra mk stand mind control employ german spelling deference nazis spirit germany end world war operation paperclip authority help vatican transport nazi mind controller engineer america continue work creation nasa include nazi scientist ss officer wernher von braun swap design v-2 rocket bombard london design saturn v rocket power nasa moon programme apollo crağ. think mention cult border paperclip escapee josef mengele angel death nazi concentration camp conduct mind genetic experiment child oğen twin provide control

twin measure impact work want observe cult mentality extreme evil look life mengele meet people suffere mercilessly mengele united states operate dr greene stalwart mkultra programming torture location underground facility mojave desert california call china lake naval weapons station entirely surface book big secret children matrix perception deception detailed background mkultra well know mkultra survivor american cathy o'brien first meet late partner mark phillips conference colorado 1996 mark help escape deprogram decade captivity offshoot mkultra know project monarch sex slave provide rich famous include father george bush dick cheney clintons read cathy mark book trance formation america new shock core read 1996 shortly usual synchronicity life find give book table conference right mkultra end despite publicly expose small 1970 continue guise touch cathy contact 2020 ağer mask compulsory country tell mkultra programming observe covid regulation relationship authority public month see technique know employ individual mkultra global population read book manual mind control include call silent weapons quiet wars come light 1980 guide perceptually program mass scale silent weapons refer mind control remember line manual government medical authority law enforcement agency obviously talk adult population covid hoax begin child person speak t.v. advertiser year old suggestibility certain probability respond react suggestion uncritical response year old reach economic reservoir deliver energy buy product impulse pass store authority speak adult like child michael jackson wear mask aspect covid narrative mind control central theme cathy o'brien write article davidicke.com connection mask mind control daughter kelly first meet 1990 bear cathy hold captive mkultra kelly force wear mask programming age dehumanise target sense individuality reduce oxygen brain body receive bingo real reason compulsory mask enforce en masse seek increase number demand wear disgraceful alleged doctor recommend death sentence oğen wear expand purpose mass mind control damage respiratory health covid-19

canada government head man child justin trudeau say fine child old wear mask insane study italy involve 47 child conclude problem baby young month wear ağer people vaccinate tell

wear mask criminal anthony fauci cathy write mandate mask allow authority literally control air breathe mkultra recall singer michael jackson wear mask reason subject mkultra mind control project monarch psyche scramble simpleton cathy write mkultra project monarch mind control michael jackson wear mask silence voice reach help remember develop whisper voice singe mask control mind outside like redefining beat example ultimately control thought drive word ultimately action lack thereof likewise mask muffle speech hear control voice word mind mind control mask obvious mind control device disturb people comply global scale mask depersonalize make person feel voice barrier people choose comply force wear mask order job ultimately family feed compromise feel shame subdue people stop talk media control narrative voice theme oğen literal train passenger tell speak case pass virus singing ban reason bonker california official tell people ride roller coaster shout scream cathy say hear day heal mkultra survivor wear mask flashe way breathing control ball gag penis water boarding say year see image people china wear mask pollution control oxygen level know population control mechanism depersonalisation burka say mask chinese communist fascist method control sweep west west china lightning speed enter 2020 reason mandatory mask include destroy respiratory health covid-19 stunt brain development child young dr

margarite griesz- brisson md phd consultant neurologist neurophysiologist founder medical director london neurology pain clinic cv go street round corner clearly care people will parrot propaganda griesz brisson phd pharmacology special interest neurotoxicology environmental medicine neuroregeneration neuroplasticity way brain change light information receive go public october 2020 passionate warning effect mask wear law reinhalation exhale air doubt create oxygen deficiency flooding carbon dioxide know human brain sensitive oxygen deprivation nerve cell example hippocampus long 3 minute oxygen survive acute warning symptom headache drowsiness dizziness issue concentration slowing reaction time reaction cognitive system oh know let tell bus truck taxi driver wear people work machinery pilot doctor police griesz brisson make important point symptom mention fade body readjust alter

fact people continue operate oxygen deficit long list potential consequence say know neurodegenerative disease year decade develop today forget phone number breakdown brain start 20 30 year ago say degenerative process brain geĵing amplifie oxygen deprivation continue wear mask nerve cell brain unable divide normally circumstance lose nerve cell long regenerate go go consider people like shop worker schoolchildren wear mask hour day sanity go happen wear mask need brain think griesz brisson say want clear head deal patient carbon dioxide induce anaesthesia tell wear mask ask organisation police store risk assessment danger negative effect mind body enforce mask wearing will government subject class action lawsuit consequence come light mask risk assessment obvious reason know conclusion independent scientific study tell horror story consequence mask criminal dr griesz brisson say child adolescent mask absolute extremely active adaptive immune system brain incredibly active learn child brain youth brain thirst oxygen metabolically active organ oxygen require child adolescent organ metabolically active griesz brisson say deprive child adolescent brain oxygen restrict way dangerous health absolutely criminal oxygen deficiency inhibit development brain damage take place result reverse

oxygen deficiency inhibit development brain damage take place result reverse mind manipulator mkultra mask year old want neurologically rewire griesz brisson say child need brain learn brain need oxygen function need clinical study simple indisputable physiology consciously purposely induce oxygen deficiency absolutely deliberate health hazard absolute medical contraindication mean drug therapy method measure allow coerce entire population use absolute medical contraindication force say definite reason reason present competent interdisciplinary independent body verifie authorise warning consequence come mask wearing continue year dementia go increase exponentially young generation reach god give potential will help need mask know damaging oxygen deprivation brain cardiologist know damaging heart pulmonologist know damaging lung oxygen deprivation damage single organ health department health insurance medical association duty vehemently lockdown

stop stop beginning medical board issue punishment doctor people exemption person doctor seriously prove oxygen deprivation harm people kind medicine doctor medical association represent responsible crime one want enforce one let happen play one prevent organisation people mention answer directly cult hierarchical level tell outcome mask virus certainly health griesz brisson say participate afraid take air breathe unfounded medical exemption face mask oxygen deprivation dangerous single brain free decision human want wear mask absolutely ineffective protect virus end rightly identify responsibility lie imperative hour

personal responsibility responsible think medium responsible superior responsible health world health organization responsible happen country government surgeon wear mask right independent study mask wearing produce long list report detail mental emotional physical danger definition insanity police officer impose mask wearing public cumulatively damage health police wear mask cumulatively damage health uĵer madness public police government say yes government brain donor idiot like uk health secretary maĵ hancock read follow science script psychopathic lunatic psychologist response stockholm syndrome sufferer defend authority destroy family surgeon wear mask consider game set match work cause oxygen deficit actually scientific study show oxygen level monitor operating theatre compensate surgeon wear mask stop spiĵle like drop open wound stop viral particle miniscule see electron microscope hole mask significantly big viral particle sneeze cough breach mask watch incredibly disingenuous experiment claim prove mask work catch virus material mouth nose slow motion camera mask block big stuff stay inside mask face breathe cause infection face see child viral particle pick camera come mask far small see experiment disingenuous useless study conclude wear mask operating theatre difference prevent infection opposite true toxic shite build mask lead explosion tooth decay gum disease dub dentist mask mouth see internet video furious american doctor urge people off mask ağer year old patient rush hospital night nearly die lung infection doctor source mask wearing study journal cancer discovery find inhalation harmful microbe contribute advanced stage lung cancer adult long term use mask

help breed dangerous pathogen microbiologist say frequent mask wearing create moist environment microbe grow proliferate enter lung canadian agency drugs technologies health cadth canadian national organisation

provide research analysis healthcare decision maker say long ago 2013 report entitle use surgical mask operating room review clinical effectiveness guidelines say evidence find support use surgical face mask reduce frequency surgical site infection evidence find effectiveness wear surgical face mask protect staff infectious material guidelines recommend use surgical face mask staff operating room protect operating room staff patient despite lack evidence tell world normal arrival vaccine come fraudulent story change know midst transform normal go mary ramsay head immunisation public health england echo word criminal anthony fauci say mask regulation stay majer people vaccinate fauci idiot continue wear mask different colour clearly see ağer claim vaccinate senator rand paul tell fauci exchange double mask theatre right theatre mary ramsay track vaccine- return normal theme say public need wear mask social distance year despite jab people got low level restriction live say tell idea vaccine pass continue follow guideline say public health england statement renege tell have vaccine irrelevant normality official story spain fascist government trump pass law mandate wearing mask beach swim sea devastate leğ spanish tourist industry pose potential breathing danger swimmer northern european sunbather walk forehead brown rest face white sheet ruling crazy retract ağer pressure public tourist industry confirme cult want mask clinically insane authority determination mask permanent hide danger body mind see censorship scientist professor denis rancourt bill gates- fund

academic publishing website researchgate paper expose danger uselessness mask rancourt say researchgate today permanently lock account 2015 reason graphically nature attack democracy corruption science obscene non logic scientific review science article report harm cause face mask potential cause harm criticism psychological device face mask tolerate say

criticism show potential influence public policy happen fascist world green danger wear mask especially regularly relate inhalation minute plastic fibre lung deluge discard mask environment ocean estimate predict 1.5 billion disposable mask end world ocean year pollute water ton plastic endanger marine wildlife study project human 129 billion face mask month worldwide million minute disposable plastic non- biodegradable microfiber break small plastic particle widespread ecosystem liĵere city clog sewage channel turn body water wriĵen book immense amount microplastic endless source absorb body rolf halden director arizona state university asu biodesign center environmental health engineering senior researcher 2020 study analyse 47 human tissue sample find microplastic detect chemical plastic single organ investigate say write answer world deluge microplastic study worldwide fund nature wwf find people consume average week 2,000 tiny piece plastic water marine life air year human ingest microplastic fill heap dinner plate life time 79 year fill large waste bin marco lambertini wwf international director general say plastic pollute ocean waterway kill marine life escape consume plastic

american geologist find tiny plastic fibre bead shard rainwater sample collect remote slope rocky mountain national park near denver colorado report head rain plastic rachel adams senior lecturer biomedical science cardiff metropolitan university say health consequence internal inflammation immune response foreign body point microplastic carrier toxin include mercury pesticide dioxin know cause cancer reproductive developmental problem toxin accumulate faĵy tissue enter body microplastic compound massively people puĵe plastic face throw away worker expose polypropylene plastic fibre know flock develop flock worker lung inhale small piece flock fibre damage lung tissue reduce breathing capacity exacerbate respiratory problem commonly surgical mask layer melt blow textile polypropylene billion people puĵe microplastic mouth nose face hour time day ağer day form mask think work mean possibly wrong post number scientific study davidicke.com go write book link science research website host dead challenge official narrative way censor vilifie official narrative

unsupportable evidence

delete truth protect study chinese scientist survive usual twist active guess yes find virtually mask test increase daily intake microplastic fibre people wear danger virus bad say crazy team institute hydrobiology wuhan scientist first discover microplastic lung tissue patient die lung cancer 1990 subsequent study confirme potential health damage plastic degrade slowly remain lung accumulate volume wuhan researcher machine simulate human breathing establish mask shed nearly 4,000 microplastic fibre month reuse mask produce scientist say mask lace toxic chemical variety compound seriously restrict health environmental reason include cobalt blue dye formaldehyde know cause watery eye burn sensation eye nose throat plus coughing wheezing nausea covid-19 potentially sinister content mask new mask different make filme microscope world find contain strange black fibre worm appear crawl react heat water near see self- replicate fibre pull skin suffere morgellons disease connect phenomenon chemtrail bring story later morgellons fibre continue grow outside body form artificial intelligence black worm fibre mask kind feel nanotechnology technique call worm micelle carry release drug want deliver body sure suppression humanity mind alter drug cult agenda big time excuse find gain access body opportunity happen vaccine mask push mouth nose hour let summarise pro con mask mask breathe carbon dioxide deprive body brain sufficient oxygen build toxin mask breathe lung cause rash face mask mouth breathe microplastic fibre toxic chemical lung dehumanisation delete individualisation literally make people faceless destroy human emotional interaction facial expression delete parental connection baby look guidance facial expression mask protect virus exist viral particle minute small hole mask government police supermarket business transport company rest seek impose mask risk assessment consequence health psychology open group lawsuit impact clear cumulative epidemic respiratory disease authority try exploit effect hide real cause dub covid-19 imagine seĵe force assessment risk criminal evil people target way child tell wear day

risk criminal evil people target way child tell wear day school ask risk assessment billion impose billion allow oh yes tinge irony 85 percent mask worldwide come china wash hand toxic shite covid rule include use toxic sanitiser health consequence constantly apply toxin absorb skin obvious level renegade mind america food drug administration fda say sanitiser drug issue warning 75 dangerous brand contain methanol antifreeze cause death kidney damage blindness fda circulate following warning brand claim safe store hand sanitizer reach pet child child use adult supervision drink hand sanitizer particularly important young child especially toddler attract pleasant smell brightly color bottle hand sanitizer drink small hand sanitizer cause alcohol poisoning child need concern child eat lick hand hand sanitizer coronavirus pandemic poison control center increase call accidental ingestion hand sanitizer important adult monitor young child use allow pet swallow hand sanitizer think pet eat potentially dangerous veterinarian pet poison control center right away hand sanitizer flammable store away heat flame hand sanitizer rub hand feel completely dry perform activity involve heat spark static electricity open flame perfectly safe mention toxin absorb skin come kid sanitise hand save virus element covid normal health psychology cumulatively damage devastate protect health make sense right impose thing care right right submit insanity psychological reframing population go deep obvious way hear people contradictory crazy covid rule change explain away dismiss involve idiot big mistake cult delight cold calculation perceive incompetence idiocy oh yes idiot system lot administer cult agenda unknowingly decide dictate bulwark tyranny self- respect self respect break tyranny history nature self respect bow oppression perpetrator liĵle self- respect overturn dictator eventually follow iron spine self respect kick off generate momentum cult target self respect knowledge go submission remain crazy contradictory change covid rule systematically apply psychologist delete self respect want rule sense

rule systematically apply psychologist delete self respect want rule sense thing decide choice base evidence logic retain self respect tell insane ridiculous make sense self respect extinguish

happen obviously stupid nonsensical thing demand great majority comply stupid people walk face nappy know damage health difference virus fear happen die inside submissive reframing begin need hide concede self respect convince submiĵe fear intimidation begin believe comply craziness right thing first concede self respect 2 + 2 = 4 2 + 2 = 5 know compromise self respect gradually avoid face fact begin believe 2 + 2=5 reframe watch process happen human psyche industrial scale cult work break spirit major tool war humiliation read american soldier bradley manning later chelsea manning ağer sex change treat ağer jail supply wikileaks document expose enormity government elite mendacity manning isolate solitary confinement month 24 hour surveillance force hand clothing go bed stand naked roll systematic humiliation introduction anal swab covid test china reason delete self respect induce compliant submission anal swab mandatory incoming passenger part china american diplomat say force undergo indignity calculated humiliation cult own chinese government america sight government people abusive relationship spirit break psychological technique include give people hope apparent respite tyranny away happen uk christmas 2020 psycho-psychologist political lackey announce easing restriction holiday reimpose immediately basis lie big psychological difference geĵing oppression give hope relief dash psychologist know see technique repeatedly traumatise people introduce extreme regulation require compliance perfect case announcement dark sinister whiĵy vallance uk new datum predict 4,000 die day winter 2020/2021 lockdown think lying ağer traumatise people claim come jackboot johnson day new curb human freedom psychologist know frightened traumatise mind suggestable submission behaviour reframing underpin people fearful suspicious potential danger league delete self respect perfect psychological recipe self loathing relationship authority public demonstrably subservience abusive partner

recipe self loathing relationship authority public demonstrably subservience abusive partner sign abusive relationship explain psychologist leslie becker phelps psychological emotional abuse undermine partner self worth verbal aĵack calling beliĵling humiliate partner public

unjustly accuse have affair interrogate behavior keep partner confused off balance say kid blame partner make act way feign public care turn private lead victim frequently feel confused incompetent unworthy hopeless chronically self doubting apply technique government treat population new year 2020 parallel obvious physical abuse abuser physically harm partner range way grab hiĵe punch shove throw object harm weapon observe physical harm impose mask lockdown threat intimidation way abuser partner line instill fear verbally threaten threatening look gesture abuser oğen known track partner destroy partner possession threaten harm threaten harm family member surprisingly victim abuse oğen feel anxiety fear panic word necessary isolation abuser oğen limit partner activity forbid talk interact friend family limit access car turn off phone physically hold oğen accomplish psychological abuse intimidation isolated person feel few resource help gain perspective situation escape word economic abuse abuser oğen partner beholden money control access fund kind prevent partner geĵe job withhold access money earn job create financial dependency make leave relationship difficult destruction livelihood propose meagre guarantee income long tell child abuser disparage partner parenting skill tell child lie partner threaten custody child threaten harm child tactic instil fear oğen elicit compliance reframe social service mafia child mercilessly abuse state covid parent look frightened recur trait abusive relationship abuse blame abuse make excuse abuser public blame lockdown abuse government make excuse government aĵacke challenge government oğen hear authority rule impose reimpose people refuse behave follow rule want renegade minds antidote thing concede self respect maĵer circumstance apparent humiliation heap laugh face reflect humiliation abuser belong renegade minds wear mask know impose humiliate suppress damage physically

renegade minds wear mask know impose humiliate suppress damage physically psychologically consequence care break spirit cause concede tyranny uk newspaper columnist peter hitchens

mainstream medium speak lockdown forced vaccination announce take jab want family member abroad believe vaccine passport inevitable introduce hitchens question critical mind renegade pressure concede hitchens excuse action say baĵle lose renegade minds accept defeat freedom stake stand self respect submiĵe tyranny important outcome consequence renegade minds mind change worth change insanity relative depend lock cage eframe mind mean simply change perception behaviour subconsciously extent subject idea reframe observer change behaviour aĵitude obvious human society reframe ginormous scale start 2020 reason psychologist doctor call shot ask people succumb covid reframing change fundamentally cult long game prepare time way crucial prepare population officialdom mentally emotionally use mind control parlance reframe population mentality submit fascism reframe government law enforcement impose fascism result fact- delete mindlessness wokeness officialdom enthusiastically unquestioningly impose global tyranny demand reframe politician behalf psychopathic deeply evil cultist cognitive reframing identifie challenge way see world form situation experience emotion restructure perception view set circumstance different way benefits aĵitude personally destructive potential individual collective mind control subject idea happen cognitive therapy develop 1960 aaron t. beck bear rhode island 1921 son jewish immigrant ukraine interested technique treatment depression beck daughter judith s. beck prominent field found beck institute cognitive behavior therapy philadelphia 1994 cognitive reframing begin worldwide

dark agenda cult reframe politician change aĵitude action completely odd appear stand happen government administrator level law enforcement military human population cultist love mind control main reason allow control people think secure agenda advancement definition calm legendary insecurity fear unexpected study mind control time travel america 1996 talk term audience year goodness gather phenomenal information knowledge thing include technique mind control describe detail book go biggest secret 1998 meet large number people recover mkultra offshoot successor begin technique population general

obvious covid hoax begin reframe enforcer observe decade clear transformation dynamic police officialdom public track book relationship mutate serve public see enemy certainly low caste class divide base income psychopathic corrupt big police officer different wholesale change unfold

collective dynamic money far position perceive power emerge nose liğe skyward government administration law enforcement aĵitude public suppose serve change increase contempt superiority control transformation clear widespread plan collective aĵitude dynamic change naturally organically quickly scale come organisation britain call common purpose create late 1980 julia middleton work office deputy prime minister john prescoĵ long disastrous premiership war criminal tony blair blair speak cult speak man jail long time ago common purpose proclaim big leadership development organisation world function charity financial benefit come host leadership development course programme world claim bring call leader 100 country continent modus operandi common purpose compare work uk government reframing network include behavioural insights team nudge unit covid reframing specialist spi b. wikileaks describe common purpose long ago hidden virus government school unknown general public recruit train leader loyal directive common purpose eu instead department undermine subvert nhs national health service example vital point understand covid hoax nhs equivalent world uĵerly reframe term administrator medical personnel transformation underpin recruitment policy outcome criminal psychopathic behaviour nhs covid see major country wikileaks say common purpose trainee learn rule regard democracy usher police state current event explain common purpose operate like glue member nhs bbc police legal profession church britain 7,000 quango local council civil service government ministry parliament control rda regional development agencies answer british institution like country change negatively relation public explain disgraceful reframe

bbc propaganda arm covid fascism network pursue goal 2019 common purpose quote figure

85,000 leader aĵende programme student age know common purpose graduate consist government state local government official administrator police chief officer range operate national local global establishment cressida dick commissioner london metropolitan police common purpose graduate gold commander oversee describe murder brazilian electrician jean charles de menezes 2005 hold psychopathic police shoot seven time head psychopathic lunatic ağer mistake terrorist bloke go day dick authorise officer pursue surveillance de menezes order stop enter underground train system police psychopath take word clearly discipline outrage promote eventually met police disaster chief constables control police different part uk common purpose graduate hear graduate network describe sort mafia secret society operate fabric government level pursue collective policy ingrain common purpose training event founder julia middleton say locally internationally common purpose graduate light small fire create change organisation community common purpose effect well illustrate story small change bring leader common purpose mission statement declare common purpose aim improve way society work expand vision decision- make ability influence kind leader organisation run variety educational programme leader age background sector order provide inspirational information opportunity need change world yes 2020 answer clear nlp delphi technique common purpose perfect common programming beĵer foundation method reach consensus group think seĵe agenda theme encourage cajole pressure agree consensus line core theme promote common purpose methodology involve delphi technique adaption opinion express summarise facilitator change agent stage participant encourage modify view light say stage stage individual opinion merge group consensus happen common purpose want believe key marginalise refuse concede group think turn group apply pressure conform see technique general population covid group thinker hostile see bullshit people reframe perception manipulation method neuro linguistic programming nlp change perception use carefully construct language nlp website describe technique way method influence brain

construct language nlp website describe technique way method influence brain behaviour

neuro phrase use language linguistic type communication enable person recode way brain respond stimulus programming manifest new well behaviour neuro linguistic programming incorporate hypnosis self- hypnosis help achieve change programming want british alternative medium operation ukcolumn detailed research common purpose long period quote co founder naval officer brian gerrish book remember publish 2011 say follow year current time interesting mother child take state speak social services people icily cool emotionless lady say slightly different word like little robot know nlp cumulative people give small imperceptible dose nlp course month year etc way major change accrue personality day day change way graduate perception uniformly reframe return role institution government law enforcement legal profession military education uk national health service swathe establishment structure pursue common agenda prepare post industrial post democratic society prepare post industrial code great reset post democratic covid fascism ukcolumn speak partner aĵende common purpose training describe personality aĵitude graduate change noticeably bad time complete course reframe tell leader special one know beĵer population demonstrable recruitment psychopath narcissist government administration level law enforcement want psychopathy hire psychopath simple cause effect want administrator police officer leader perceive public less being maĵer employ narcissist personality identifie psychometric identifie knowledge ability aĵitude personality trait carefully design questionnaire test policy pass decade power crazy power- tripper appoint law enforcement security government administration preparation current time dynamic public law enforcement officialdom transform ukcolumn brian gerrish say narcissistic love power automatically mean crush way receive major piece puzzle friend point public official apply job year ago require psychometric test undoubtedly start screening process sort people post obvious 2020 clear happen long people pay aĵention change centre event covid britain national health service nhs behave disgracefully slavishly follow cult agenda nhs management structure awash common

disgracefully slavishly follow cult agenda nhs management structure awash common purpose

graduate change agent work common cause helen bevan chief service transformation nhs institute innovation improvement co author document call million change agent review social movement literature implication large scale change nhs document compare project management approach change social movement people change peer peer definition give social movement group people consciously attempt build radically new social order involve people broad range social background deploy politically confrontational socially disruptive tactic cyrus collective challenge base common purpose social solidarity sustained interaction elite opponent authority sidney helen bevan write nhs document

define framing

process leader construct articulate message powerful compelling way order win people cause action think come definition accurate national health service institution britain wide world take reframe change agent include united nations national government local council social service kidnap child love parent extraordinary gathering scale road end parenthood altogether child love home steal kidnap state care inversion local authority council home foster parent force adoption time child allow abuse response council care ukcolumn highlight common purpose connection south yorkshire police rotherham council officer case scandal area sexual exploitation child authority turn blind eye alarmed discover chief executive strategic director children young people services manager local strategic partnership community cohesion manager cabinet member cohesion chief constable predecessor attend leadership training course provide pseudo charity change agent secure position hire fire organisation thing start quickly personnel hire fire basis work agenda change agent represent rapidly promote incompetent qualified skilled pre common purpose old school career stall disappear happen decade institution state police health social service transform result aĵitude job public medical profession include nursing vocation caring employ cold callous shit personality type ukcolumn investigation conclude blur boundary people profession public private sector responsibility

accountability common purpose encourage graduate believe new select leader work outside establish political social structure achieve paradigm shift change call lead authority reframe face nappy process obvious police recruitment psychopath development unquestioning mind control group thinker transform law enforcement politically correct woke joke travesty public service today wear face nappy like good liĵle gofer enforce covid rule fascism alongside specifically recruit psychopath soĝware mind incapable free thought brian gerrish example policeman bike press photo cycling proficiency course normal people political correctness go mad truth policeman reframe reality perfect common sense bike cycling example police rescue boy pond take advice risk assessment normal person arrive think risk moment dive police reframe

assessment normal person arrive think risk moment dive police reframe follow normal procedure sheer unthinking stupidity london face nappy head common purpose graduate cressida dick see behaviour vigil march 2021 murder woman sarah everard police officer charge crime brain leĝ vigil circumstance instead manhandle woman stop break covid rule betray classic reframing mind thrall perception control capacity see situation merit act accordingly rule rule mind set father rule regulation guidance intelligent blind obedience idiot intelligent decent copper go leave kind old school job daily nightmare combination psychopath rule book soĝware mind clearly public display covid era automaton robot uniform impose fascistic covid regulation population personal initiative judge situation merit thousand example world point infamous derbyshire police english east midlands one think pour dye beauty spot drone track people walk countryside away call policing rule decree government enforce bewildered state group gather closed space walk countryside thing idiocy enter realm clinical insanity police officer derbyshire say horrified horrified find 15

20 irresponsible kid play football match close leisure centre breach coronavirus restriction see police kid run away leave belonging reframe man woman derbyshire police seek establish

identity view fine parent natural thing youngster kick ball turn criminal activity enforce moronic soğware program derbyshire police find mentality country barely conscious horrified officer say action need ensure rule follow utmost importance ensure child follow rule regulation covid-19 second research parroting master script support evidence nope reframe people think think idea reframing see police officer ağer repeat question word word officialdom tell see great swathe spew tell think official narrative police public different group mentality people tell fear entirety police tell reason ultimately tiny inner core global cult tell derbyshire police horrifie oh think kid play football relieve psychological consequence lockdown deny human contact friend interaction touch discourse vital human psychological health deny month ağer month dismantle psyche child young people depression suicide explode derbyshire police horrify kid reframe people mental emotional process impact psychological health youngster far dangerous virus mendacious official figure true reframe tell program act derbyshire chief constable first period lockdown black dye drone nonsense go peter goodman man sever connection force derbyshire constabulary male voice choir decide inclusive allow woman join fact male voice choir make particular sound produce male voice elude guy terrifyingly run policing

derbyshire retire week ağer force condemn disgraceful supreme court justice jonathan sumption behaviour extreme lockdown imposition goodman replace deputy rachel swann charge officer horrified police statement boy commiĵe hanging offence play football include line youngster irresponsible time live miss point real relevance time live imposition fascism enforce psychopath reframe mind police officer play vital establish fascist tyranny child grandchild live entire life definition insanity hard beat run close impose mask people effect health wear face nappy day public police reason authority tell self respect woker uniform reframed arrest year old court pick flower wait bus brain dead police officialdom north carolina criminal proceeding happen regularly child aĵorney julie boyer give year old crayon colouring book flower hearing adult decide fate county chief district court judge jay corpening

ask child believe santa claus easter bunny tooth fairy make life alter decision course common sense meaning common purpose reframe mind treat child way police operate american school psychological preparation child accept police state normal adult life go camera biometric tracking technology school police training focus reframe snowflake wokers happen military pentagon brass say training session extremism need troop ask focused capitol building riot black lives maĵer riot ignore difference apparently rightly ask actually difference people die capitol riot violence police officer shoot unarmed protestor blm riot kill 25 people cost billion ask question prompt psychopath reframe mind run pentagon education programming need troop training base psychological programming fodder cult military man dumb stupid animal pawn foreign policy cult dna secretary state henry kissinger famously say government police similar term time defend people stop enforcer cult agenda people military like country target destruction long list woke imposition cult own gaga president biden sign executive order take office allow taxpayer money pay transgender surgery active military personnel veteran man soldier lgbtqia+ hint skoliosexual spectrasexual oh good man bad choice word bigot pentagon announce march 2021 appointment first diversity inclusion officer special forces richard torres estrada arrive publication d&i strategic plan guide enterprise wide effort institutionalize sustain d&i think special forces strategic plan defend america pay aĵention defend woke military new role torres estrada post image compare donald trump adolf hitler expect bias representative supposedly non political pentagon cable news host tucker carlson say pentagon yale faculty lounge cruise missile secretary defense lloyd austin board member weapon maker raytheon stock compensation interest october 2020 worth $ 1.4 million say purge military enemy woke support donald trump austin refer target racist extremist true woke fashion racist extremist pentagon document pledge eradicate eliminate conquer form racism sexism homophobia definition decide diversity inclusion commiĵee people

form racism sexism homophobia definition decide diversity inclusion commiĵee people racism sexism homophobia situation opinion woke cult dismantle military purge testosterone china expand military give troop masculinity training think go end cult coordinate military like british military control woke spineless brass personal career interest woke mean fast asleep mind control perception manipulation technique individual create group think unleash global population general result capacity obvious fascist agenda instal covid brain firewalle like computer system process certain concept thought realisation bad cult young target adult fascist global state plan fully implement need prepare total compliance eliminate pushback entire generation cult pour billion take complete control education school university operative corporation bill gates plan transform education institution programming centre mentality woke james mcconnell professor psychology university michigan write psychology today 1970 day come combine sensory deprivation drug hypnosis astute manipulation reward punishment gain absolute control individual behaviour possible achieve rapid highly effective type brainwashing allow dramatic change person behaviour personality reshape society train birth want society want technique own personality acquire reason believe right refuse acquire new personality old anti social potential mass brainwashing 1970 mentality display capture arrogant psychopathy drive forward emphasise young people succumb woke programming incredibly impressive people give today young perceptually target generation history technology involve vast swathe young generation fall spell woke woke mentality perceptual program found inversion appreciate later significant woke inverted opposite claim woke term african american culture 1900s refer awareness social racial justice meaning modern version new woke answer oh woke today mean different maĵer wokers seek hide insist old woke new woke find awareness social justice modern variety woke demand inclusivity exclude different opinion call mass censorship silence woke claim stand oppression impose oppression foundation driver political correctness cult invention manipulate population silence woke believe liberal pursue global society describe fascist anti fascist fascist

believe liberal pursue global society describe fascist anti fascist fascist woke call social justice spread injustice go common enemy easily identifie differing view woke suppose metaphor awake solid- gold asleep deep cult induce coma meet criterion off fairy state point obvious fact people care look sense condemnation need appreciate onslaught perceptual programming young incessant merciless understand reframe give youth frame start world cult demand cult access mind day ağer day education system entire formative year perception form information receive cult- create system life long download information deliver elicit particular perception behaviour expand new extreme recent decade ever- increase censorship delete opinion information lead perceptual reframing mass scale describe cradle grave programming recent time targeting young mind birth adulthood enter stratosphere take form skewing teach fit cult agenda omnipresent technique group think isolate non believer pressure line tendency follow herd new world relation parent covid hoax tell child stop wear mask school covid test have vaccine fear peer pressure consequence different peer pressure pressure conform group think renegade mind group think retain set perception unique group think underpin consequence group thinking abuse aim refuse dna manipulate covid vaccine potent example big pressure conform come group manipulate program hive mind woke control structure education apply mainstream organisation education hierarchy cult decide policy impose government cult network government impose school college university leadership impose policy teacher academic impose child student level resistance teacher university lecturer target authority oğen fire

student regularly demand dismissal academic increasingly odd narrative student program believe thought student target cult consume program group think launch protest demand removal try push target student scale perceptual inversion covid programming cult impose rule psycho psychologist government shop transport company business impose staff impose customer pressure pushbacker conform cult process destroy family scan aspect society sequence time fact free woke hijack left potent example woke mentality possible deletion

factual evidence education system seek produce uniform society bother fact know deletion credible history volume type highly relevant orwell say control past control future control present control past control perception past control perception future control present control perception past writing deleting history oppose imposition marxism wokeism know marxism cost 100 million life 20th century watch video read report woker generation ask basic historical question mind blow survey 2,000 people find percent millennial bear approximately early1980 early 2000s believe second world war 1939 1945 break assassination president kennedy 1963 think margaret thatcher british prime minister time office 1979 1990 post fact society provable fact defence fascism political correctness silicon valley censorship fact maĵer anymore witness covid hoax sacrifice uniqueness woke group think religion require mean think big woke religion expression group think censorship woke religion orthodoxy defend group think censorship burn stake burn twiĵer lead eventually burn stake woke humanity regress age past big woke inversion creator funder grow traditional leğ centre political household council estate leicester 1950 60 know leğ challenge power wealth hoard elite threat freedom speech opinion day student go marche defend freedom speech today wokers march deletion earth happen elite collectively cult oppose youth early life fund existence antithesis leğ hijacke brand invert stand mentality call liberal progressive act like fascist cult billionaire corporation fund control education ensure woke programming unceasing formative year child young people non woker

woke programming unceasing formative year child young people non woker isolate word student teacher college professor cult fund existence colossal global network woke organisation spawn promote cause cult wish list global transformation turn wokers demander think coincidence cult agenda humanity carbon sorry copy societal transformation desire woke political correctness mean cult delete public debate know win free-flow information evidence human cause climate change mean cult seek transform society globally control dictatorship impose fine detail life save planet actually need save transgender obsession

prepare collective perception accept new human gender create technologically procreation human 2.0 race obsession mean cult seek divide rule population trigger racial division perception society racist opposite case perfect regard compare today racism apartheid segregation bring end civil right movement 1960 insult memory movement inspiration like martin luther king anti racism industry dominate privileged white white supremacy label privileged white people demonise poor deprived white people push tyranny marginalise destroy white people especially target dominant race number western society cult seek transform image want change society weaken undermine big group group turn come jews jew mass migration mass movement people middle east africa asia europe south united states asia australia way cult seek dilute racial cultural political influence white people western society white people ask government appear work politically culturally biased incoming culture answer way sexually straight people man woman ask authority bias favour sexuality answer way cult want central part cult agenda central part woke agenda woke create continue fund immense degree cult billionaire corporation begin coincidence syllable stick throat billionaire social justice warrior joe biden 100 percent own asset cult wokers man white house remember long last rapidly diminish cognitive function walk step aircraǧ fall arse appear challenge shell puppet minute biden take office cult begin executive order promote woke wish list woke agenda impose severely

executive order promote woke wish list woke agenda impose severely cult agenda woke organisation activist network spawn cult fund extreme long promote cult want happen woke fund promote social justice billionaire billionaire destroy social justice social justice mantra cover dismantle social justice fund billionaire damn social justice make sense woke premier funder cult billionaire financier george soros say basically money look social consequence soros give $ 32 billion open society foundations global woke network fund black lives maĵer mass immigration europe united states transgender activism climate change activism political correctness group target white supremacy form privileged white thug dominate antifa scam

deal unquestioning fact free zone woke scamme child play need pull off organisation know agent cult army naïve reframe uninformed narcissistic know nothing convince self righteousness self purity virtue soros fellow billionaire billionaire corporation pour hundred million black lives maĵer connect group promote global audience motivate care black people billionaire control exploit system leave million black people abject poverty deprivation absolutely address cult network fund blm slave trade black lives

maĵer hijacke phrase challenge turn laudable concept political weapon divide society know blm fraud claim lives maĵer inclusive statement racist blm cult master want end racism means end control humanity mind colour creed culture background destroy nuclear family get end racism goal blm happen goal cult expose book decade steal child love parent give school power override parent agenda blm marxist organisation case cult create marxism blm patrisse cullors blm co founder say 2015 video fellow organiser include co founder alicia garza train marxists lady know aǧer marriage patrisse khan cullors buy $ 1.4 million home 2021 white area california black population 1.6 cent far buy high end home total $ 3.2 million marxist bit spare blm coffer cult corporation billionaire hand good $ 100 million black people

black lives maĵer work confirmation black journalist jason whitlock account suspend twiĵer simply link story marxist home buying spree say blm leader make million dollar off back dead black man spit fire alive black lies matter cult asset agency come promote blm wake death career criminal george floyd jail number time include force way home black woman raid gun point stomach floyd filme hold minneapolis street 2020 knee police officer neck subsequently die appalling thing officer technique police peaceful protestor lockdown outcry woke brigade unquestioning supporter cult agenda woker support lockdown covid claptrap aĵacke stand tyranny impose court document later include detail autopsy floyd county medical examiner dr andrew baker conclude floyd take fatal level drug fentanyl maĵere fact free question free woke floyd death follow worldwide protest police brutality amid call defund police throw baby

bathwater woke speciality wake murder british woman sarah everard green party member house lords baroness jones moulescoomb nincompoopia beĵer call 6 pm curfew man breach geneva conventions war crime ban collective punishment cross black white woke mind baroness nincompoopia far convinced self righteousness compute detail american city defund police face floyd riot ağer $ 15 million delete police budget washington dc useless woke mayor muriel bowser car- jacking rise 300 percent month capital record high murder rate 15 year happen chicago city line cult soros plan bring fear street neighbourhood reduce police release violent criminal prosecute crime mob rule agenda warn book come long shooting area minneapolis floyd arrest increase 2,500 percent compare year defunde police george floyd lead big increase dead people black police protection politician make decision stay increase expect professional hypocrite cult actually want abolish police want abolish local control police hand federal government psychopath advance hunger games society george floyd protest turn violent riot black store business destroy fire looting

protest turn violent riot black store business destroy fire looting america fuel black lives maĵer woke irony want civil right loot liquor store supermarket off smart tv way race war class war black people patronise privileged black white alike tell victim white supremacy find extraordinary watch privileged black support system bloodline network slave trade parrot cult serve manipulative crap privileged white oğen billionaire associate race war class war colour diversion black senator cory booker black congresswoman maxine waters resident nincompoopia personify tell people victim devalue responsibility plight power impact reality experience instead situation whitey turn change will change change life change crucial see victim creator reality life simple sequence choice consequence different choice create different consequence choice black lives maĵer woke mafia seek dictate life wokers emotional psychological road traffic accident tell personal empowerment thing cult black lives maĵer want black people claim defend underdog create perpetuate underdog cult bad nightmare human unity go black white race economic servitude control focus divert common manipulate

believe divide black tell poverty plight fault white bloke live street poverty plight experience difference plight black people white supremacist white privilege live street unite human family mutual oppressor suppressor fight oppressor white face financially deprived cult know covid agenda move new level extremism people go respond spread seed disunity stop united response evil target racist aĵack whiteness geĵe outrageous especially american democratic party appalling history anti black racism barack obama joe biden

hillary clinton nancy pelosi eulogise

senator robert byrd funeral 2010 ağer nearly 60 year career congress byrd brutal ku klux klan racist violent abuser cathy o'brien mkultra say fight military negro die thousand time old glory trample dirt rise beloved land degrade race mongrel throwback black specimen wild biden call byrd close friend mentor woke hypocrite anti racist anti poor anti people perceive class illustration scale anti white racism descend seriously woke moronic new york times contributor damon young describe whiteness virus like virus die body leğ infect go way stop locate isolate extract kill young black man consequence white man say reverse face jail sentence racism super woke numbskull senator tammy duckworth mazie hirono say object future biden cabinet appointment nominate asian americans pacific islanders mind ability candidate look like duckworth say vote racial minority vote lgbtq vote appoint people ground race illegal problem ludicrous pair message free pass situation critical race racism white child tell school intrinsically racist teach divisive critical race theory claim law legal institution inherently racist race socially construct concept white people economic political interest expense people colour white virus see racial inequality result social economic legal difference white people create race maintain white interest lead poverty criminality minority community tell white guy sleep street principal east community school new york send white parent manifesto call white traitor advocate white abolition people teach kid urgently need psychiatrist school include chart white identity range white supremacist white abolition define

behaviour white people follow end regime whiteness woke black privileged white associate act exactly like slave owner old ku klux klan racist like robert byrd self- purity true racism body type state mind manifest colour creed culture racial fraud equity equality treatment opportunity equity term spin equality mean different equality true sense raising equity race boĵom level poverty equity equity cult want

raising equity race boĵom level poverty equity equity cult want human family empower blm leader like anti racist organisation continue privileged pampered existence perpetuate perception gather racism time hear anti racist anti semitism organisation act racism discrimination fall interest fund- raising power influence go professional soccer anti racism operation kick thing confirmed black lives maĵer riot summer 2020 cult creation anti lockdown protest condemn period transmiĵe covid authority support mass gathering black lives maĵer supporter see self delude people claim doctor type protest non existent covid favour lockdown aĵacke protest covid support black lives maĵer keep away protest thing joke lockdown protestor arrest oğen brutally reframe face nappies grotesque sight police officer take knee black lives

maĵer cult fund marxist organisation support violent riot want destroy nuclear family white people white shucks woke obsession race display people shoot dead boulder colorado march 2021 cult own woke tv channel like cnn say shooter appear white man wokers twiĵer condemn violent white man usual mantra shooter release ahmad al aliwi alissa anti trump arab american sigh disappointment hear five mile away mind people dead mean family race baiting maĵere sick cult serve people like barack obama exploit death divide america racial ground job cult man racist white americans first black president united states give second term bright obama filthy rich today appear big influence biden administration downtrodden black man victim white supremacy disingenuous fraud reveal contempt black people put deep south alabama accent talk blm red flag fully wake fully cult fully virtue signal professional soccer

authority team take knee match support marxist black lives maĵer soccer authority club display black lives maĵer player shirt flashe

electronic billboard pitch fan condemn freemasonic take knee ritual widely condemn expect woke virtue signaller professional sport fully woke medium reverse racism ban criticise race culture white people go like problem get racial harmony equality black supremacist black lives maĵer tell white people fall knee street apologise white supremacy black supremacist act like white supremacist slave owner past breach self- obsess race obsess sense self purity joe biden appoint race obsess black supremacist kristen clarke head justice department civil rights division clarke claim black endow great mental physical spiritual ability white reverse statement vilifie clarke message problem see black white situation black figure virtuous victim head civil rights division treat civil right perception renegade mind cult agenda support woke government medium maĵer condemn censor simple racist clarke prosper despite end culture biden administration racial cultural economic bias cult require human family divide war faction see racially segregated graduation define lens perceive racism racist mathematic racist food racist plant world famous kew gardens london say change label plant flower tell pre-'covid million visitor year racist kew director richard deverell say effort quickly decolonise collection aĝer approach ajay chhabra actor insight sugar cane link slavery plant idiot decolonisation woke manual mean colonisation society mentality extension colonisation cult witness new chinese style cultural revolution essential success marxist takeover cultural past tradition sweep away allow new culture build beĵer woke targeting long stand western cultural pillar include historical monument cancelling historical figure happen mao revolution china purge remnant capitalist traditional element chinese society instal maoism dominant ideology china western world today dominant ideology woke beĵer marxism maoism covid hoax specifically seek destroy art element western culture people meet pub restaurant close theatre music venue sport stadium place worship ban singing destruction western society criticism religion ban

christianity dominant religion white numerically- dominant race christianity fade rapidly history tradition weave fabric western society delete pillar structure follow thing collapse christian defend religion religion fact end christianity turn woke usher downfall rank awash change agent know unknowing level include pope francis definitely know clueless archbishop canterbury justin welby possibly sure woke seek coordinate aĵack western culture tradition way life intersectionality define complex cumulative way effect multiple form discrimination racism sexism classism combine overlap intersect especially experience marginalise individual group wade orwellian woke speak mean coordinate disparate group common cause overthrow freedom liberal value entire structure public institution infest woke government level political party police military school university advertising medium trade union abomination achieve cult web appoint woker position power baĵere non woker line intimidation isolation threat job fire wake empathy delete vicious hostility social justice wokers desire gutless spineless employer virtue signal wokeness corporation fille wokers today notably silicon valley ironically woke exploit mentality cult master create fund censor enslave wokers cheer turn woke liberal leğ inversion traditional liberal leğ. campaign justice ground power wealth distribution replace campaign identity politic genuine traditional leğ take money today billionaire abuser fairness justice billionaire want fund genuine leğ.

interest division opinion day have not change cult manipulate fund identity politic division opinion today wokers non wokers income bracket cult corporation billionaire take wealth disparity cataclysmic level injustice long speak language woke hand dosh woke network censor enemy billionaire damn injustice laugh till belly hurt woker close self aware transform leğ dynamic mean wokers drone social justice fund billionaire destroy social justice world billionaire climate con encapsulate say comprehensively hoax human cause global warming detail book year cult operative organisation pump primer start climate con purpose build vehicle club rome establish cult 1968 rockefellers rothschilds centrally involve gofer frontman

maurice strong canadian oil millionaire host earth summit rio de janeiro brazil 1992 global green movement expand earnest guide hand cult earth summit establish agenda 21 cult create own united nations use illusion human cause climate change justify transformation global society save world climate disaster problem reaction solution sell government medium school university generation terrifie believe world go end lifetime old people inflicte stop complete restructuring chill kid hoax restructuring precisely cult agenda demand purely coincidence course today give codename great reset update term agenda 21 associate agenda 2030 laĵer administer un vote general assembly 2015 21 2030 seek centralised control resource food right raindrop fall land demand agenda 21 establish 1992 recognise society emerge today end national sovereignty state planning management land resource ecosystem desert forest mountain ocean fresh water agriculture rural development biotechnology ensure equity state define role business financial resource abolition private property restructure family unit blm child raise state people tell job major restriction movement creation human seĵlement zone mass reseĵlement people force vacate land dumbe education mass global depopulation pursuit united nations create trojan horse world government climate con critical importance promote outcome expect un involve oh involve right un promote agenda 21 agenda 2030

involve oh involve right un promote agenda 21 agenda 2030 justifie climate change drive climate hoax intergovernmental panel climate change ipcc world corrupt organisation ipcc lie ferociously constantly day open door global medium hang unquestioningly mendacious word green movement entirely woke long lose original environmental focus co- opt cult obsession global warming delete value scramble head experience small example mean beautiful country walk enjoy time week year path merge field forest feel natural world green organisation hampshire isle wight wildlife trust take land proceed cut large number tree include mature one install horrible big bright steel stay fence destroy atmosphere beautiful place feel nature day ağ day walk sound chainsaw magnificent mature weeping willow tree admire cut base

trunk challenge woke young girl green shirt course vandalism reply weep willow grow people pay donate hampshire isle wight wildlife trust green organisation today environmental movement know instead support system extinction rebellion dark agenda private jet climate justice cult own gates fund world economic forum founder klaus schwab emergence greta thunberg harness young climate agenda invite speak world un schwab publish book covid-19 great reset 2020 covid hoax climate hoax lay new society straight agenda 21 agenda 2030 bill gates follow early 2021 take time destroy world produce book way save gates flie world private jet admiĵe probably high greenhouse gas footprint planet personal flying gigantic bid planet big private jet operator climate change saviour fly private jet include john kerry

special presidential envoy climate actor leonardo dicaprio un messenger peace special focus climate change people bullshit corner market manure sceptical gates book avoid climate disaster solution breakthrough need genuine aĵempt protect world obvious pile excrement aĵributed mega psychopath aim sell master plan humanity gates book shite pile klaus schwab wriĵen person use climate change covid excuse new society coincidence cult world economic forum bill melinda gates foundation promote climate hoax host event 201 pre empte simulation coronavirus hoax simulate real humanity week british royal family promote reset expect prince climate change cause war syria charles hapless son prince william say reset relationship nature trajectory species avoid climate disaster amazing promotor covid climate change control system connect gates world economic forum study early 2021 claim carbon dioxide emission fall equivalent global lockdown roughly year decade save planet study appear period schwab mob claim video lockdown destroy life billion good earth quiet ambient noise take video amid public backlash arrogant empathy delete stupidity go corinne le quéré professor tyndall centre climate change research university east anglia lead author climate lockdown study write world economic forum gates call book change aspect economy long time cult agenda human eat synthetic meat predict book cow farm animal eliminate australian tv host commentator alan jones describe carbon emission target mean farm animal australia

emission reduce demand 35 percent 2030 zero 2050 let agriculture total emission agriculture 75 million tonne carbon dioxide equivalent reduce 35 percent come 50 million tonne math example 1.5 million cow go reduce herd 525,000 2030 year 58,000 cow year beef herd 30 million reduce 35 percent 10.5 million mean 1.2 million cattle year 2030 insanity 75 million sheep reduce 35 percent 26 million sheep 3 million year paris agreement 30 million beast dairy cow cattle pig sheep 8,000 minute hour decade people

dairy cow cattle pig sheep 8,000 minute hour decade people know talk clearly level campaigner politician administrator cult know outcome want face war humanity animal natural world target say covid hoax begin plan eventually claim deadly virus able jump animal include farm animal domestic pet human book go production come story russia register world first covid-19 vaccine cat dog maker sputnik v warn pet farm animal spread virus report say scientist warn deadly pathogen soon begin spread home farm stage infection farm domestic animal know outcome journey think mean animal eye term call zoonosis zoonotic disease transmit animal human cult want break connection animal people people people farm animal fit cult agenda transform food natural synthetic gas life kill great example cult inversion condemnation carbon dioxide dangerous pollutant gas life natural world dead dead breathe oxygen breathe carbon dioxide plant produce oxygen absorb carbon dioxide perfect symbiotic relationship cult want dismantle reason come final chapter gates schwab cult operative mindless repeater want world carbon neutral 2050 early beĵer zero carbon cry echo lunatic call zero covid carbon emission target deindustrialise world accordance cult plan post- industrial post democratic society call renewable like solar wind come close meet human energy need blackout cold inevitable texans get picture winter 2021 snow storm stop wind turbine solar panel work light go water rely electricity supply system gates want power electricity ensure master kill switch stop human activity movement cooking water warmth time like climate lie stupendously inverted claim urgently reduce carbon dioxide co2 atmosphere liĵle 400 part million optimum plant growth 2,000 ppm fall near 150 ppm natural world start die fall low 280

ppm 1880 measurement hawaii rise 413 ppm 2019 industrialisation planet green industrial period insane psychopathic madman gates satisfie block rise co2 fund technology suck atmosphere reason clear industrial era

rise co2 fund technology suck atmosphere reason clear industrial era destroy world co2 instead turn potentially disastrous ongoing fall co2 greenpeace co- founder scientist patrick moore walk away greenpeace 1986 expose green movement fear mongering lie say 500 million year ago 17 time co2 atmosphere today level fall hundred million year 150 million year co2 level earth atmosphere reduce 90 percent moore say time humanity begin unlock carbon dioxide

fossil fuel 38 second midnight sense human earth salvation moore point half co2 emiĵe fossil fuel stay atmosphere remember pollution pour chimney tell carbon dioxide fact kind pollution carbon dioxide invisible gas william happer professor physics princeton university long time government adviser climate emphasise co2 deficiency maximum growth food production greenhouse grower add carbon dioxide bit fun say warming 100 year aǧer earth emerge super cold period liĵle ice age natural warming cycle 1940 happer say peak year warming 1988 explain monster el nino natural cyclical warming pacific climate change say effect co2 compare paint wall red paint coat apply maĵer slap wall red effect rise co2 happen say volume atmosphere double increase temperature single degree climate hoaxer know invent ridiculously complicated series feedback loop try overcome devastating fact hear puppet greta go cluelessly feedback loop sun affect temperature climate denier nonsense contemplate climate graph rise temperature follow rise co2 way round lag 800 year 800 year present time hit medieval warm period temperature high industrialisation follow liĵle ice age temperature plummet world emerge century cold climate record begin make repeat line hoĵ year record begin meaningless compare like like cold period liĵle ice age correspond low period sunspot activity sun active proper scientist surprise confirm obvious fact earth temperature affected

scale sun activity energetic power subsequently emit time hear climate hoaxer talk sun source earth temperature focusse co2 make 0.117 percent call greenhouse gas fraction generate human activity rest natural 90 percent greenhouse gas water vapour cloud fig 9 ban moisture notice climate hoaxer long use polar bear promotion image far extinct polar bear community stable thrive joe bastardi

american meteorologist weather forecaster outspoken critic climate lie document book climate chronicles weather paĵern event claim evidence climate change happen long industrialisation happen naturally happen expect give cyclical nature climate design planet read detailed background climate hoax book shake head wonder believe crap spawn multi trillion dollar industry base absolute garbage hiv cause aids sars cov-2 cause covid-19 climate covid common give source contradictory factor explain reference hot climate change cold climate change get sniffle covid get sniffle covid have sniffle symptom covid have sniffle especially dangerous slow walker sheer audacity offer cambridge university study actually link covid climate change happen eventually conclude climate change play role covid-19 spread animal human wait kid group force close population grow er foundation depend bat likely zoonotic origin sars cov-1 sars cov-2 apart bat origin climate change effect bat irrelevant awe academic insight sure figure 9 idea gas life disastrously change climate insult brain point weather climate modification advanced major weather event natural earthquake come cover subject length book china openly plan rapid expansion weather modification programme include change climate area half time size india china weather manipulation ensure clear sky 2008 olympics beijing quote military document detail employ weather manipulation weapon war 1960 70 conflict vietnam operation popeye manipulate monsoon rain military purpose international treaty weather modification possible course weather energetic information change climate hoax pull covid billion believe virus exist believe human cause climate change exist cult transform global society way long plan hoax achieve preĵy way declare lie fact virus sars cov-2 human warm planet behaviour cult network foundation government academic

science policy belief parrot mantra give big grant produce research confirm narrative true symptom add virus'/'climate change sound scary scientist researcher challenge narrative grant withdraw career destroy medium promote lie unquestionable truth censor alternative view evidence great percentage population

lie unquestionable truth censor alternative view evidence great percentage population believe tell lie everybody know believe masse turn mind technique endlessly human history woker big promotor climate lie covid fascism mind own cult sense self righteous self purity know bound exist bubble reality fact irrelevant way look see run like vein blue cheese control information mean control perception mean control behaviour collectively mean control human society cult own global medium silicon valley fascist simple reason control information control perception human society examine facet cult agenda support introduction censor push censor psychopath know follow order trot dock follow order work first time work nuremberg trial hold world public jury politician government official police compliant doctor scientist virologist cult operative gates tedros fauci vallance whiĵy ferguson zuckerberg wojcicki brin page dorsey damn lot include especially psychopath psychologist brainless gutless excuse journalist repeat lie happen allow escape justice psychological economic armageddon responsible visit human compliant unquestioning swathe humanity self obsess know ignorance wokers start god help kid god help grandkid god help will will stand gates hell will focus genetically manipulate covid vaccine meet official definition vaccine centers disease control cdc product stimulate person immune system produce immunity specific disease protect person disease basis covid vaccine vaccine maker claim stop infection transmission instead multi levelled conspiracy change nature human body mean human depopulate enormous swathe humanity shall human 1.0 cusp human 2.0 sinister reason covid vaccine detail background vaccine general government regulator test vaccine maker maker control data reveal child america give 50 vaccine dose age 69 age 19 effect combined schedule test autoimmune disease immune system aĵack body soar mass vaccine era disease general child young case vaccine target immune system government

give big pharma drug company immunity prosecution vaccine death injury 1986 national childhood vaccine injury act ncvia government taxpayer fund

1986 national childhood vaccine injury act ncvia government taxpayer fund compensation consequence big pharma vaccine criminal satanic drug giant lose vaccine schedule increase dramatically 1986 reason incentive vaccine safe big incentive money introduce ridiculously high bar prove vaccine liability government control hearing challenge compensation vaccine court far pay $ 4 billion vaccine tell safe psychopath like zuckerberg censor post say immunity law justifie ruling vaccine nature unavoidably unsafe check ingredient vaccine shock new child body try aluminium brain toxin connect dementia abort foetal tissue formaldehyde embalm corpse world- renowne aluminium expert christopher exley research health effect aluminium vaccine shut keele university uk begin take funding bill melinda gates foundation research disease eradicate vaccine begin decline find fall begin long vaccine introduce fall plateaue ağer vaccine disease like scarlet fever vaccine decline way environmental factor perfect case point polio vaccine polio begin lead arsenate

first spray insecticide residue remain food product spraying start 1892 first polio epidemic come vermont 1894 simple answer stop spray rockefeller create big pharma beĵer idea polio decree cause poliovirus spread person person infect person spinal cord lead arsenate replace lethal ddt effect cause paralysis damage brain central nervous system polio plummet ddt reduce ban vaccine give credit today far big cause polio vaccine promote bill gates vaccine justice campaigner robert kennedy jr son assassinate cult aĵorney general robert kennedy 2017 world health organization reluctantly admit global explosion polio predominantly vaccine strain frightening epidemic congo afghanistan philippines link vaccine fact 2018 70 global polio case vaccine strain vaccine fortune cult own gates big pharma undermine health immune system population glimpse mentality big pharma cartel report wion world news international english language tv station base india expose extraordinary behaviour drug

company pfizer covid vaccine wion report tell pfizer fantastic demand argentina brazil country return vaccine include immunity prosecution pfizer negligence government insurance protect pfizer law suit handing collateral sovereign asset country include argentina bank reserve military basis embassy building pfizer demand brazil form waive sovereignty asset abroad exempt pfizer brazilian law give pfizer immunity civil liability vaccine develop government funding big pharma evil incarnate creation cult hand ticket nuremberg phantom vaccine phantom disease expose covid vaccine fraud wide background cult set vaccinate man woman child planet allege new disease survival rate 99.77 percent grotesquely- manipulate figure

world health organization johns hopkins university infection death ratio 0.23 0.15 percent accord stanford epidemiologist dr john ioannidis estimate vary danger remain tiny truth tell fake infection fake death ratio zero mind evidence present answer virus let focus moment death rate figure 0.23 percent figure include worldwide test positive test test virus die 28 day long cause cause subtract illusory covid death global data sheet 0.23 percent think leğ zero vaccination successfully develop call coronavirus fail animal testing stage cause hypersensitivity claim protect impact disease far bad cult- own vaccine corporation get problem time bypass animal trial go straight human make length trial public rollout short away normally take five year develop vaccine cause demonstrable harm people include long term effect officially connect vaccination covid non vaccine officially produce approve maĵer month standing start reason develop covid hoax begin b base computer program natural source official non trial short government agency give emergency approval trial complete approval secure public covid vaccination actually continuation trial drug company trial schedule end 2023 time lot people go dead datum government agency give emergency approval supply

big pharma corporation form pfizer biontech astrazeneca moderna johnson johnson case vaccine nature emergency approval mean drug company prove vaccine safe effective trial way

short complete government regulator believe safe effective criminal manipulation product circulation testing worth agency give approval infest big pharma connect place- people act interest big pharma cult public damn human lab rat covid vaccine produce record time pfizer biontech moderna employ technique approve use human know mrna vaccine inject synthetic version viral mrna messenger rna key term messenger body work basis information messaging communication constantly pass genetic system brain change message change state body nature change psychology behaviour way brain process information think go significant change personality perception people covid vaccine synthetic potion insider aldous huxley predict follow 1961 mrna vaccine include term pharmacological method generation pharmacological method make people love servitude produce dictatorship tear speak produce kind painless concentration camp entire society people fact liberty take away enjoy distract desire rebel propaganda brainwashing brainwashing enhance pharmacological method final revolution apologist claim mrna synthetic vaccine change dna genetic blueprint rna affect dna way round disingenuous process call reverse transcription convert rna dna integrate dna cell nucleus highlight december 2020 scientist harvard massachuseĵs institute technology mit geneticist report 40 percent mammalian genome result reverse transcription basic level messaging change sequence lead change dna receive transmiĵe communication introduce synthetic material cell change cell dna locate process know transfection define technique insert foreign nucleic acid dna rna cell typically intention alter property cell researcher sloan keĵering institute new york find change messenger rna deactivate tumour suppress protein promote cancer happen mess messaging covid vaccine maker moderna found 2010 canadian stem cell biologist derrick j. rossi ağer breakthrough discovery field transform reprogramme stem cell neutral cell program cell include sperm cell

moderna found principle genetic manipulation produce vaccine drug genetically manipulate synthetic covid shite look mode rna modify rna important point supreme court rule genetically modifie dna complementary dna cdna synthesize laboratory messenger rna patent own

psychopath cell replicate synthetic mrna covid vaccine theory body trick make antigen trigger antibody target virus spike protein dr tom cowan say see cut crap vaccine deliver self replicate synthetic material cell effect change human dna process compound synthetic material time self- replicate vaccine'-maker moderna describe mrna like soğware cell mess body soğware happen change soğware computer change reason cult prepare production line mrna covid vaccine long list excuse use variant virus show exist plan transfer mrna technique vaccine give child young people cumulative consequence transformation human dna constant infusion synthetic genetic material kill change rest consider government give emergency approval vaccine vaccine approve human testing worth maker give immunity prosecution death adverse effect suffere public uk government award permanent legal indemnity employee harm patient treat covid-19 suspect covid-19 thought possible effect vaccine effect list food drug administration guillain barre syndrome acute disseminated encephalomyelitis transverse myelitis encephalitis myelitis encephalomyelitis meningoencephalitis meningitis encephalopathy convulsion seizure stroke narcolepsy cataplexy anaphylaxis acute myocardial infarction heart aĵack myocarditis pericarditis autoimmune disease death implication pregnancy birth outcome acute demyelinating disease non anaphylactic allergy reaction thrombocytopenia disseminated intravascular coagulation venous thromboembolism arthritis arthralgia joint pain kawasaki disease multisystem inflammatory syndrome child vaccine enhance disease laĵer way vaccine potential disease far bad uk

doctor freedom campaigner vernon coleman describe condition list unpleasant death thought vaccine circumstance testament potential humanity clueless unquestioning stupidity program stupidity terminal insider speak dr michael yeadon vice president head research chief scientific adviser vaccine giant pfizer yeadon work inside big pharma stop vocal critic covid vaccine potential multiple harm include infertility woman spring 2021 go term conspiracy begin go impossible yeadon speak interview freedom campaigner james delingpole mention early say sample virus explain mrna technique originate anti- cancer field way turn off certain gene

advantageous want stop cancer grow control origin unusual application yeadon say treat cancer patient aggressive procedure understandable alternative die thing use technique public health measure people involve catch infectious agent vaccinate probably die public health measure want close zero side effect find odd choose technique cut tooth field oncology worried gene base vaccine inject body spread body take cell regulator tell cell take go generate wide range response multiple step doubt cult intend yeadon say gene like body vaccine certainly gene harm want intrigue say cancer field technique turn gene off. explore process answer different gene have different function create mayhem physically psychologically turn wrong one right one off. read report experiment researcher university washington school computer science engineering encode dna infect computer body biological computer human dna inflict damage computer computer synthetic material mess human body washington research team say possible insert malicious malware physical dna strand corrupt computer system gene sequence machine read gene leĵer store binary digit 0 1

conclude hacker day use blood spit sample access computer system obtain sensitive datum police forensic lab infect genome file level digital interaction synthetic vaccine need see picture clear later michael yeadon say sense vaccine young people danger virus benefit downside potential effect fact government think civilised rational country rain vaccine people 30 40 child 20 get letter phone call know right doctor vaccinate know right risk risk disease hope effect rare away new technology understand 100 percent population blood clot problem astrazeneca vaccine affecte young people emphasise downside risk benefit astrazeneca version produce oxford university use mrna get toxic cocktail inside cell target dna johnson johnson vaccine use similar technique produce blood clot effect extent united states pause use point gene therapy cell modification procedure vaccine truth content injection enter cell idea effect people speculate educated opinion good end maker know potion design will know consequence michael yeadon mute say doctor nhs know right come work inject people know sleep night know know position quit say know toxicology know good risk benefit

yeadon speak seven university professor speak publicly university policy say counter government medical advisor afraid lose government grant intimidation silence truth level system silence people speak choice yeadon call moral coward child grandchild life bugger off leğ powerful comment relate allege variant instil fear justify lockdown introduce vaccine say government claim variant nonsense check alleged variant code 99.7 percent identical original human identity difference equivalent puĵe baseball cap off wear way round 0.3 percent difference impossible variant escape immunity original sense have new vaccine variant say 30 percent difference justifie believe immune system recognise gates fund variant modeller vaccine'-pusher john edmunds care comment yeadon say drug company make new version vaccine variant bad say regulator world like mhra uk get agree vaccine variant similar first vaccine safety study transparently sinister yeadon say conspiracy need vaccine variant tell country shut border go hundred million arm pass regulator pick method make vaccine reason big protection virus far big project mean politician adviser willing thing thing knowingly result avoidable death happen think lockdown deprivation health care year speak people prepare result avoidable death fellow human being bother penny drop work 30 year level pure evil deal yeadon say friend associate believe evil remind stalin pol pot hitler stalin say death tragedy million statistic think benign explanation need vaccine sure regulator way wave regulator wrestle danger parent vaccine clearly shock see covid hoax begin think previously unthinkable want depopulate significant proportion world way involve destruction environment nuclear weapon poison anthrax like want plausible deniability multi year infectious disease crisis actually think come well plan work go say think rid 99 percent human wonder want hell way unstoppable folk yeadon conclude submiĵe vaccine allow kind normal life long screw tighten coerce mandate percent think rest prison camp wish wrong think point include coronavirus vaccine suddenly

prison camp wish wrong think point include coronavirus vaccine suddenly come time idea

long term affect trial short coerce force people medical procedure nuremberg code instigate nazis people delay have vaccine quick internet search confirm mask reduce respiratory viral transmission government know smash civil society know dozen peer review study connection lockdown reduce death know personal friend elite flye go holiday public lock elite have vaccine ask vaccine target difference race say know document project new american century september 2000 say develop advanced form biological warfare target specific genotype transform biological warfare realm terror politically useful tool oh evil right absolutely sure cull old people see cdc definition mrna covid vaccine vaccine claim reduce severity symptom people protect infection transmission lie return normal people vaccinate claim stop infection transmission allege virus change lie manipulate people jab see mask distancing require vaccinate think elderly people fragile health immune response go affected infuse cell synthetic material toxic substance know short long term devastating fatal culling old begin first lockdown continue vaccine death rate care home soar immediately resident begin vaccinate infuse synthetic material brave commiĵed whistleblower nurse career risk expose truth rest keep head mouth shut career suppose care long time american certified nursing assistant give james post video describe emotionally happen care home vaccination begin say 2020 resident sick covid die entire year shortly ağer pfizer mrna injection 14 people die week near death drop like flie say resident walk shot long lose ability conduct intelligent conversation home management say sudden death cause super spreader covid-19 come james ask resident refuse injection sick case inject elderly mrna synthetic potion blame illness death follow virus james describe happen care home great crime genocide country see remember nhs staff nurse early word genocide happen vaccine act human annihilation uk care home whistleblower tell

happen vaccine act human annihilation uk care home whistleblower tell similar story james effect vaccine death outbreak illness dub covid ağer geĵe jab tell care home management staff zealously impose government regulation allow question official narrative let speak say nhs

bad result reframing worker local care home live say single case covid year resident vaccinate 19 positive case week die vaccine honest obvious cause effect ignore medium public australia health minister greg hunt head strategy world economic forum admîje hospital ağer vaccine suffere accord report skin infection cellulitis severe case warrant day hospital immediately authority say vaccine effect vaccine cellulitis like reaction family perfectly healthy old people die ağer vaccine say give vaccine early alive numbskull rating off chart father die covid aged 48 take ill day ağer have vaccine man health administrator shield pandemic leğ house go vaccine have vaccine fall ill die qualifie possible cause effect covid-19 go death certificate family say idea catch virus family member say tragically go vaccination ultimately lead catch covid sad truth go know come family warn people remember virus exist real stupidity nurse doctor first round vaccine collapse die end hospital bed grieve relative say vaccine despite happen kid mean husband return dead vaccine kill doctor vcu medical center richmond virginia say johnson johnson vaccine blame man skin peel off.

patient richard terrell say happen fast skin peel off. come off hand say sting burn itch bend arm leg painful skin swollen rub pfizer biontech moderna vaccine use mrna change cell johnson johnson version use dna process similar astrazeneca technique johnson johnson astrazeneca vaccine pause country ağer cause blood problem terrell doctor fnu nutan say die get medical aĵention sound terrible nutan terrell vaccine oh recommend people nurse hospital bed 40 minute ağer vaccination unable swallow throat swelling tell doctor lose mobility arm 36 hour follow vaccination ail nurse good geĵe vaccination deal form cognitive dissonance madness public medical staff. remarkable correlation have vaccine trumpet fact suffere bad happening shortly ağerwards witold rogiewicz polish doctor video vaccination ridicule question safety intention bill gates vaccinate protect love one friend patient mention quickly info anti vaxxer anti covider want contact bill gates ridicule danger 5g. day later dead naturally vaccination mention verdict heart aĵack lie lie lie member human race slip extreme state insanity unfortunately include reframe doctor nursing staff.

have vaccine die minute hour consider valid connection death cause 28 day long positive test test test virus mean covid-19 go death certificate vaccine'-death connection calculated deceit figure initial rollout period february 12th 2020 reveal death report cdc ağer covid vaccine happen 48 hour man uk suffere extremely rare blood clot problem ağer have astrazeneca vaccine causal link establish say gates fund medicines healthcare product regulatory agency mhra give vaccine emergency approval pfizer executive dr michael yeadon explain interview procedure cause blood coagulation clot people risk die blood clot brain say hear medical doctor friend people suffere skin bleeding massive headache astrazeneca shot stop 20 country blood cloĵing issue corrupt mhra european medicines agency ema world health organization say continue give ema admiĵe rule definitively link blood cloĵing vaccine later marco cavaleri head ema vaccine strategy say clear link vaccine thrombosis know trial show vaccine safe blood clot affecte young people virtually danger covid exist make stupid sinister british government respond public alarm wheel june raine terrifyingly weak infant school headmistress sound alike head uk mhra drug regulator idea stand big pharma government pressure laughable tell way allow untested human genetically manipulate vaccine expose public first place mass lying new normal covid era mhra later say 30 case rare blood clot connect astrazeneca vaccine mean lot reality stress benefit jab prevent covid-19 outweigh risk ridiculous disingenuous statement callous disregard human health hard contemplate immediately ağer mendacious clear hospital worker denmark experience blood clot cerebral haemorrhaging follow astrazeneca jab die norwegian health official pål andre holme say vaccine common factor patient history individual powerful immune response confident antibody find cause explanation vaccine trigger stroke clot bleed brain clearly associate vaccine word mouth whistleblower report similar consequence follow vaccine tell safe number grow day clear witness human carnage learn hard way woman

grow day clear witness human carnage learn hard way woman interview ukcolumn tell

husband suffere dramatic health effect ağer vaccine good health life go liĵle unwell lose feeling leg experience excruciating pain misdiagnosis follow twice accident emergency allergy sciatica admiĵe

neurology ward doctor say condition cause vaccine seven vaccinate people apparently treat ward similar symptom woman say vaccine believe medium claim safe think government vaccine somebody believe bring vaccination safe tragic way learn lesson woman post husband transport stroke patient hospital shiğ ask vaccinate covid reply yes massive brain bleed day ağer second dose say husband report vaccinate information time doctor e ignore note appear annoyed mention particular report verifie express common theme confirm monumental underreporting vaccine consequence interestingly vaccine brain blood clot stroke consequence begin emerge uk national health service begin publicity campaign tell public event stroke scoĵish nhs staff nurse quit disgust march 2021 say see traumatic injury vaccine getting report yellow card adverse reaction scheme treat symptom ask happen treat symptom speak dismiss like crazy crazy crazy colleague speak terrified speak video appear internet people uncontrollably shake ağer vaccine control muscle limb face scoĵish mother break severe rash body immediately ağer give astrazeneca vaccine picture horrific leigh king 41 year old hairdresser lanarkshire say life prepared experience skin sore constantly hot feel pain like worry vaccine perfectly safe effect medical staff pressure vaccine

psychopathic health authority government london hospital consultant give k. polyakova write british medical journal bmj currently struggle failure report reality morbidity cause current vaccination program health service staff population level sickness vaccination unprecedented staff get sick neurological symptom have huge impact health service function young healthy day week require medical treatment team take go vaccinate mandatory vaccination instance stupid unethical irresponsible come protect staff public health voluntary phase vaccination encourage staff unlicensed product impact immediate health clearly state vaccine product

offer immunity stop transmission protect health sure medical worker laud government agenda reason toss population general school america face situation close high number teacher staff bad reaction pfizer biontech moderna johnson johnson covid vaccine link death adverse effect bmj take consultant comment preĵy quickly ground spread disinformation expose truth vaccine real reason cover breathtaking hide evidence scale vaccine death cover worldwide confirme compare official figure personal experience public hear people community die immediately soon ağer vaccine appear medium likely

official total vaccine fatality adverse reaction percent estimate report see estimate low percent harvard study uk april 29th 2021 757,654 adverse reaction officially report pfizer biontech oxford astrazeneca moderna vaccine thousand death link jab mean estimate time number reality percent reporting rate percentage seven million adverse reaction 10,000 potential death percent reporting rate time figure 1976 government pull swine flu vaccine ağer 53 death uk datum include combine 10,000 eye disorder covid vaccine 750 suffere visual impairment blindness multiply estimate reporting percentage covid case officially fall hospital virtually covid crisis begin fill range problem wake vaccine rollout number america catastrophic death link type vaccine increase 6,000 percent first quarter 2021 compare 2020 39 year old woman ogden utah die day ağer receive second dose moderna covid vaccine liver heart kidney fail despite fact know medical issue condition family seek autopsy dr erik christensen utah chief medical examiner say prove vaccine injury cause death happen think instance autopsy vaccine official cause death anaphylaxis receive vaccine die instantaneously short difficult definitively vaccine christensen say true add estimate percent far reporting rate vaccine death reaction conclusion vaccine death reaction include covid potion phenomenally understate official figure story find endless account death reaction public medical care home staff official figure begin professional script reader dr david williams

public health official ontario canada insult intelligence claim adverse reaction death 380,000

vaccine dose give bear resemblance people know happen owns circle dirk huyer charge geĵe million vaccinate ontario time chief coroner province investigate cause death include possible death vaccine aide say step investigate death evidence indicate rosemary frei secure master science degree molecular biology faculty medicine canada university calgary turn investigative journalism official figure vaccine death reaction sense say doctor seldom report adverse event people get sick die ağer geĵe vaccination aĵribute vaccine way year wonder aloud covid vaccine shot cause harm immediately brand anti vax anti science career threaten health professional huge pressure support push vaccinate billion quick time possible frei say today half million vaccine dose give people ontario rush vaccinate 15 million province september mainstream medium scream speed add slim likelihood go tell truth official people get sick die vaccine true ontario true know authority know go happen multiple death adverse reaction uk government gates fund big pharma dominate medicines healthcare product regulatory agency mhra hire company employ ai compile project reaction vaccine uncountable request application say mhra urgently seek artificial intelligence ai soğware tool process expect high volume covid-19 vaccine adverse drug reaction agency head disingenuous june raine give vaccine emergency approval company hire first shot give go kill maim okay oh yes perfectly fine grateful thank doctor range covid vaccine adverse reaction go page ağer page mhra criminally underreporte yellow card system include affect eye ear skin digestion blood raine mhra amazingly claim overall safety experience far expect clinical trial death adverse effect deafness blindness expect mention human tragedy expect give approval use vaccine guilty crime humanity include murder definition kill person malice aforethought recklessness manifest extreme indifference value human life people involved mhra cdc america equivalent world nuremberg trial answer callous inhumanity talk

cdc america equivalent world nuremberg trial answer callous inhumanity talk immediate effect vaccine long term impact dna synthetic manipulation main reason hysterically desperate inoculate entire global population short possible time africa develop world major

focus vaccine depopulation agenda mass vaccination sale pitch underway thank caring people like rockefellers cult asset rockefeller foundation pre empte covid pandemic document publish 2010 predict happen decade later announce initial $ 34.95 million grant february 2021 ensure equitable access covid-19 testing vaccine thing africa collaboration 24 organization business government agency pan africa initiative focus 10 country burkina faso ethiopia ghana kenya nigeria rwanda south africa tanzania uganda zambia rajiv shah president rockefeller foundation administrator cia control usaid say africa mass vaccinate change dna people threat humanity fair africans rockefeller foundation say want help poor deprive people country heart vaccinate entire global population covid hoax set achieve official decolonisation africa cult merely prelude financial colonisation road return physical colonisation vaccine vital sudden convenient death covid sceptic president tanzania see true light lot people africa aware form colonisation exploitation need stand ground vaccine work scam potential problem cult vaccine mean change human dna body messaging protect virus show exist vaccine work design work appear work people overcome lower amplification rate pcr test produce few case few death point march 2020 amplification rate test test virus artificially high generate positive test case justify lockdown world health organization recommend absurdly high 45 amplification cycle ensure high positive require cult remain silent issue january 20th 2021 biden inauguration day vaccination seriously underway day recommend ağer discussion america cdc laboratory lower testing amplification dr david samadi certified urologist health writer say encourage lab reduce cycle count pcr test say current cycle high result particle declare positive case mainstream news report see say mean number covid infection dramatically inflate oh liĵle bit

say mean number covid infection dramatically inflate oh liĵle bit cdc america issue new guidance laboratory april 2021 use 28 cycle vaccinate people timing cdc intervention cynically design appear vaccine responsible fall case death real reason see follow example new york state lab wadsworth center identifie 872 positive test

july 2020 base threshold 40 cycle figure lower 35 cycle 43 percent 872 long positive 30 cycle figure 63 percent massachuseĵs lab find 85 90 percent people test positive july cycle threshold 40 negative 30 cycle ashish jha md director harvard global health institute say shocked high boy change way need think testing shocked obvious spring 2020 medical background medical professional work shocking terrifying week ağer directive lower pcr cycle london daily mail run headline covid case plummet new infection fall 45 30 globally past 3 week expert vaccine main driver 8 americans 13 people worldwide receive first dose acknowledge drop aĵributed vaccine soon morph medium vaccine cause case death fall pcr threshold december 2020 chaos english channel port truck driver need negative covid test board ferry home christmas government want remove backlog fast possible bring troop testing 1,600 driver 36 test positive rest give clear cross channel guess authority think 36 away unquestioning catch amplification trick people believe absence information mainstream apply pressure refuse vaccine succumb obviously work truth exact opposite death care home soar vaccine israel term skyrocket re- analysis publish datum

israeli health ministry lead dr hervé seligmann medicine emerging infectious tropical diseases aix marseille university find pfizer covid vaccine kill 40 time elderly people disease kill five week vaccination period 260 time young people die virus accord manipulate virus figure dr seligmann co study author haim yativ declare ağer review israeli vaccine death datum new holocaust mid april 2021 ağer vast number people worldwide vaccinate story change clear coordination uk government begin prepare ground future lockdown nuremberg destine boris johnson tell whopper say case fall lockdown vaccine lockdown irrelevant virus test fraudulent death certificate decide number case death study ağer study show lockdown work instead kill psychologically destroy people united states anthony fauci rochelle walensky ultra zionist head cdc peddle line lockdown answer vaccine line repeat cue moron canadian prime minister justin trudeau hysteria vaccinate lockdown vaccine difference make sense face oh cult want lockdown vaccine vaccine allow see total answer lockdown long justifie livelihood destroy

variant renew upward manipulation pcr amplification plan instigate end lockdown vaccine desperate israel jewish arab population rule sabbatian cult runner impose dna- manipulate vaccine people extent jewish refuser begin liken happen early year nazi germany fantastic claim government jewish people act like nazis realise sabbatian cult nazis sabbatians hate jews piece start fit question jewish government treat jews callous disregard life freedom find answer control government israel jewish sabbatian israeli lawyer tamir turgal nazi comparison comment german lawyer reiner fuellmich lead class action lawsuit psychopath crime humanity turgal describe israeli government vaccinate child pregnant woman basis evidence dangerous evidence dangerous evidence medical experimentation turgal say breach nuremberg code medical experimentation procedure require informed consent choice think nuremberg code develop nazi experimentation jews concentration camp people like evil belief

josef mengele breach israeli government know sabbatian government intelligence military agency like mossad shin bet israeli defense forces sabbatians force nazis kaleidoscope come focus come israeli jews sue government violate nuremberg code essentially make israelis subject medical experiment controversial vaccine shocker light happen nazi germany anshe ha emet people truth israeli doctor lawyer campaigner public launch lawsuit international criminal court say head ministry health prime minister present vaccine israel begin vaccination israeli resident vaccinate advise practice take medical experiment consent require nuremberg code irony unbelievable easily explain word sabbatians foundation israeli covid apartheid green pass green passport allow jews arabs dna manipulate vaccine life work fly travel general shopping mall bar restaurant hotel concert gym swimming pool theatre sport venue non-'vaccinated ban place activity israelis liken green pass yellow star jews nazi germany force wear yellow sticker branch

uk supermarket chain morrisons tell exempt mask wear display shop sensitive israeli system blatant south african style apartheid basis compliance non compliance fascism colour skin

appropriate sabbatian israeli government close pre mandela apartheid regime pretoria sabbatian instigate vaccine passport israel plan sabbatians strike deal pfizer allow lead way percentage national population infuse synthetic material result catastrophic israeli freedom activist shai dannon tell chair appear beach say vaccinate health minister yuli edelstein say unwilling unable jab confer immunity leğ man liar maker claim vaccine confer immunity figure vaccine death psychopath say chance vaccine kill maim know change dna lockdown permanent fascism israeli parliament pass law allow personal information non vaccinated share local national authority month claim supporter way encourage people vaccinate hadas ziv physicians human rights describe draconian law crush medical ethic patient right idea sabbatians reply paper sabbatian israel lead plan global vaccine pass call green passport remain permanent lockdown restriction unable badly desperately cult vaccinate term colour green chance relate psychology fuse perception green climate hoax covid hoax solution great reset lie politician health official psychologist deny plan mandatory vaccination restriction base vaccination know exactly mean happen government country reach agreement enforce global system free denmark free sweden unveil digital vaccine certification cyprus czech republic estonia greece hungary iceland italy poland portugal slovakia spain commiĵe vaccine passport system rest include eu follow satanic uk government certainly way despite mendacious denial time writing try manipulate public have vaccine abroad summer holiday work prove synthetic toxicity inject document eu european commission move vaccine certificate 2018 2019 covid hoax begin know come abracadabra ursula von der leyen german president commission announce march 2021 eu digital green certificate green track public covid status passport sting worldwide far east follow paĵern south korea rule vaccination passport green pass able return daily life bill gates

vaccination passport green pass able return daily life bill gates prepare passport cult operative year paper version gates fund digital taĵoo identify vaccinate taĵoo report include substance externally readable confirm vaccinate bio luminous light generate enzyme think fireflie call

luciferase yes name ağer cult god lucifer light bringer come gates say fund readable taĵoo ensure child develop world vaccinate miss care poor kid know cover story develop vaccine tag system planet gates fund id2020 alliance league lovely people microsoğ gavi rockefeller foundation accenture ideo.org say interview march 2020 vaccine publicly exist world globalised digital certificate track virus vaccinate gates know start mrna vaccine come come plan tag vaccinate marginalise intelligent stop expose offere $ 10 million bribe nigerian house representatives invoke compulsory covid vaccination nigerians sara cunial member italian parliament call gates vaccine criminal urge italian president hand international criminal court crime humanity condemn plan chip human race know long plan agenda war criminal cult gofer tony blair case scale arrogance dark blair muster say vaccination end go route liberty blair disgusting piece work confirm medium give lot coverage bloke call charlie mullins founder london big independent plumbing company pimlico plumbers say will employ vaccinate home people vaccinate say way allow walk street vaccinate gates cheer time alert white coat plan people qualify passport have first dose follow up new one invent variant human genetic transform dead adjust change hollywood celebrity usual propaganda stunt promote call health safety rating verify building space take necessary step prioritize health safety staff visitor stakeholder include lady gaga jennifer lopez michael b. jordan robert deniro venus williams wolfgang puck deepak chopra 17th surgeon general richard carmona yawn health safety big connection china parent company delos head goldman sachs partner paul scialla example excuse health dictate life activity population guess confirmation safety building vaccinated people

dictate life activity population guess confirmation safety building vaccinated people right electronic concentration camp write decade ago plan restrict travel refuse bow tyranny achieve air travel aviation industry make blanket decree vaccine guarantee income design global version china social credit system track behaviour 24/7 award delete credit base behaviour support state mean entire lifestyle eat credit score fall certain level consequence

kick china ten million deny travel air train location activity deny refuser vaccine bow head government fascist new term require describe extreme guess fascist technocracy way chinese system technological technocratic control sweep west see los angeles school system plan expand worldwide child require covid'- track app scan daily enter classroom call daily pass tracking system produce gates microsoğ sure shock rigid pass scan barcode step inside body barcode information include health check covid test vaccination entry code specific building access allow student teacher negative test test test virus symptom allege relate covid symptom range illness temperature 100 degree barcode entry plan case school kid psychologically prepared accept normal life impose school important cult gofer long time american freedom campaigner john whitehead rutherford institute exaggerate say databit databit build electronic concentration camp canada cult gofer

prime minister justin trudeau take major step real thing people intern test positive test test virus arrive canadian airport jail internment hotel oğen food water long period door fail lock sexual assault interned charge $ 2,000 privilege abuse way trudeau fully board cult say covid pandemic provide opportunity global reset permanently change western civilisation number deputy prime minister chrystia freeland trustee world economic forum rhodes scholar trudeau family long servant cult big secret cathy o'brien book trance formation america horrific background trudeau father pierre trudeau canadian prime minister hide fascism façade heart sleeve liberal well- hone cult technique vaccine virus show exist variant virus show exist like original computer generate fiction believe virus case death rate region 0.23 0.15 percent death concentrate old average age people die response lack threat truth psychopath idiot knowingly unknowingly answer gates cult seek vaccinate man woman child planet earth clearly vaccine covid desperation infuse genetically manipulate synthetic material mrna fraudulent excuse variant virus invention dr sherri tenpenny osteopathic medical doctor united states expert vaccine effect vehement campaigner use tenpenny board certifie emergency medicine director level trauma centre 12 year move cleveland 1996 start

integrative medicine practice treat patient 50 state 17 country wean people off

pharmaceutical drug interested consequence vaccine ağer aĵending meeting national vaccine information center washington dc 2000 sit day listen medical doctor scientist lawyer parent vaccine injure kid ask go vaccinate get ill father give list vaccine military sick entire life experience add question begin examine vaccine document centers disease control cdc ağer read first 1998 version general recommendations vaccination think document poorly wriĵen bad science tenpenny begin 20 year research vaccine continue day begin research covid vaccine march 2020 describe deadly see tenpenny say first 30 day vaccine rollout united states 40,000 adverse event report vaccine adverse event database document deliver day 172 page long 40,000 adverse event 3,100 case potentially deadly anaphylactic shock 5,000 neurological reaction effect range headache numbness dizziness vertigo lose feeling hand foot paraesthesia limb fall asleep people sensation insect crawl underneath skin happen first 30 day remember percent far adverse reaction vaccine relate death estimate officially report think single product industry industry long product planet 30 day 40,000 people complain effect market get pay actor tell great get vaccine offer people $ 500 vaccine get nurse doctor go get vaccine get vaccine tenpenny say go happy dance folk begin suffer bell palsy facial paralysis neuropathy cardiac arrhythmia autoimmune reaction kill blood disorder go happy happy go picture people say tenpenny describe vaccine design killing bad initial consequence tenpenny say maybe 14 month begin ravage go happen covid vaccinate consequence take year 20 year understand consider variation covid vaccine use mrna messenger rna theory activate immune system produce protective antibody actual virus computer program isolate claim real thing instead use synthetic mrna inoculate synthetic material body technique know trojan horse absorb cell change nature dna human dna change infusion messenger rna new vaccine type change ban cult internet platform contempt contemptuous mark zuckerberg truth human health see

internet platform contempt contemptuous mark zuckerberg truth human health see internal facebook video leak project veritas investigative team say covid vaccine share caution know long term effect basically modify people dna rna time disgusting man facebook censor ban say exactly nuremberg trial crime humanity know censor legitimate concern deny right informed consent behalf cult own people kill damage vaccination technique cast doubt vaccine access information deny plan annual covid vaccination add deal invent variant change vaccine mrna system pfizer executive tell shareholder virtual barclays global healthcare conference march 2021 public need dose covid vaccine plus regular yearly booster company plan hike price milk profit significant opportunity vaccine professional liar cheat opportunist tell vaccine safe give volume mrna plan infuse human body ability replicate transformation human genetic biological synthetic biological exactly long time cult plan reason die sherri tenpenny say like have button button mechanism actually trojan horse mechanism allow synthetic virus piece synthetic virus inside cell start replicate insert part dna trojan horse ask overwhelming majority people vaccine know content reply government say stop geĵe virus government false impression purpose increase take- read sherri tenpenny detailed analysis health consequence blog vaxxter.com summary highlight statement bill gates human being vaccine manufacture machine man insane vaccine'-generated antibody carry synthetic messenger rna cell damage start tenpenny contend say lung adversely affecte vary degree pus bleeding obviously affect breathing dub covid-19 sinister impact antibody macrophage white blood cell immune system consist type 1 type 2 different function say type 1 hyper-vigilant white blood cell gobble bacteria etc circumstance fatal say affect mitigate type 2 macrophage kick calm system stop go rogue clear dead tissue debris reduce inflammation type 1 fire crew cause type 1 kill infection type 2 heal damage say punchline regard covid vaccination say mrna antibody block type 2 macrophage aĵache

covid vaccination say mrna antibody block type 2 macrophage aĵache deactivate mean type 1 response trigger infection stop geĵe hand calm switch off- switch say follow tenpenny

highlight potential autoimmune disease body aĵacke associate vaccine first appear infuse synthetic foreign substance cell cause immune system react panic believe body overwhelm invader consequence fatal autoimmune response know cytokine storm liken homeowner panic intruder pick gun shoot randomly direction turn fire immune system unleash storm inflammatory response call cytokine threat body commit hara kiri lesson mess body immune response peril vaccine seriously fundamentally mess immune response tenpenny refer consequence call anaphylactic shock severe highly dangerous allergic reaction immune system flood body chemical give example have bee sting prime immune system make sensitive chemical people sting maybe year later immune response powerful lead anaphylactic shock tenpenny relate shock regard covid vaccine call polyethylene glycol peg enormous number people sensitive decade use range product process include food drink skin cream medicine study claim 72 percent people antibody trigger peg compare percent 1960 allergic hypersensitive reaction gathering cause concern tenpenny point mrna vaccine coat bubble polyethylene glycol potential cause anaphylactic shock immune sensitivity report appear people react way ağer have covid vaccine think go happen humanity vaccine tenpenny say picture see people rash weepy rash big reaction arm thing like acute allergic reaction likely polyethylene glycol previously prime study conspiracy perpetrator length think make population sensitive peg puĵe vaccine coincidence instead testament carefully coldly plan current event scale conspiracy deal tenpenny explain vaccine mrna procedure breach blood brain barrier protect brain toxin crap cause malfunction case protein corrupt brain function cause amyotrophic lateral sclerosis als progressive nervous system disease lead loss muscle control frontal lobe degeneration alzheimer dementia immunologist j. bart classon publish paper connect mrna vaccine prion disease lead alzheimer form neurogenerative disease point

mrna vaccine prion disease lead alzheimer form neurogenerative disease point potential affect placenta way woman infertile highly significant chapter discuss aspect non vaccine relate nanotechnology transmission injected uninjected qualify idiocy tenpenny describe

research confirme vaccine'- generate antibody interact range tissue body aĵack organ include lung mean people stand get shot different symptom think cult gofer like queen tony blair christopher whiĵy anthony fauci psychopath vaccine picture see bloody chance doctor tell danger consequence covid vaccine instead encourage pressure patient shot let think moment doctor medical staff stupid lazy psychopathic financial incentive jab tenpenny people go die vaccine directly large number people go start horribly sick kind autoimmune disease 42 day maybe year go stupid doctor good get vaccine go oh mutant need extra dose vaccine vaccine instead dose dose need stupid physician take time learn learn sit live room read 19 page paper special time remember sara kayat nhs tv doctor say covid vaccine 100 percent prevent hospitalisation death doctor idiot like profession worship infallible far medical scientific expert lie uninformed prat try hide covid era fail uk narrative repeat tv doctor hilary jones push minority proper doctor scientist speak vaccine entire edifice cult global state form government medical system corporation mainstream medium silicon valley army compliant doctor medical staff scientist willing money enhance career promote party line expert will anti vaxxer covidiot pressure vaccinate incessant report claim vaccine help cure cancer alzheimer lame walk wait announcement bring coffee morning cook tea symptom covid increase week miracle vaccine american supermarket giant kroger co. offere nearly 500,000 employee 35 state $ 100 bonus have vaccine donut chain krispy kreme promise vaccinated customer free glaze donut day rest 2021 dna change doughnut long offer incentive confirm desperation bad vaccine stunt uk health secretary maĵ prat hancock live tv ağer watch clip vaccinate

secretary maĵ prat hancock live tv ağer watch clip vaccinate roll begin hancock fake tear badly embarrassing brain britain piers morgan lockdown support vaccine support vaccine passport- support tv host play hancock

emotional say response act atrocious call school nativity presumably today include mary jesus mask wise man keep camel foot apart shepherd tent arrest system serve morgan tweet love

idea covid vaccine passport flight restaurant club football gym shop etc time covid deny anti vaxxer loonie bullsh*t bluff call bar go responsible citizen aspire genius think morgan specialise shout disagree laud free speech hero lose job ağer storm off set live like child throw dolly pram free speech hero real trouble idea bullsh*t mean way throw cult desperate infuse synthetic dna change concoction lie trick intimidation question shall address believe end century use word general educated opinion alter able speak machine think expect contradict alan turing 1912 1954 father artificial intelligence expose decade plan transform human body biological synthetic biological state new human human 2.0 plan connect artificial intelligence global ai smart grid operate global system ai control fridge heating system car mind human long human post human sub- human thinking emotional process replace ai say sound crazy science fiction understand balanced rational mind crazy today world reality put covid vaccine true context ray kurzweil ultra zionist computer scientist inventor futurist co founder singularity university singularity refer merging human machine transhumanism kurzweil say humanity connect cyber cloud period ever- recur year 2030 thinking hybrid biological non biological thinking human able extend limitation think cloud go gateway cloud brain go gradually merge enhance view nature human transcend limitation technology vastly superior small proportion human get small small small utterly negligible try sell end humanity know stage evolution super human like god lie shock eh population especially young manipulate addiction technology design enslave life induce addiction smartphone holdable move technology body wearable begin invasion body implantable warn way plan microchippe people enter era divert think refer chip important nanochip know smart dust neural

divert think refer chip important nanochip know smart dust neural dust nanobot far small see human eye nanotechnology increasingly food product release atmosphere geoengineering sky fund bill gates shut sun save planet global warming gates fund project spray million tonne chalk calcium carbonate stratosphere sweden dim sun cool earth scientist warn disastrous weather system way predict opposition lead swedish space agency announce experiment

happen plan summer 2021 show cult go dim impact sun associate plan change planet atmosphere give psychopath gates right dictate entire human race dismantle planetary system world safe man large global warming hoax sun like gas life fear essential good health human survival inversion body transform sunlight vital vitamin d process involve cholesterol cholesterol tell fear urge big pharma statin drug reduce cholesterol systematic reduce cholesterol mean reduce vitamin d uptake multiple health problem cause statin long term save government have pay pension delivery system block sunlight widely refer chemtrail deep agenda appear first contrail condensation trail stream aircraǧ cold air high altitude contrail disperse quickly chemtrail spread sky eventually content fall earth time watch aircraǧ cross-cross clear blue sky release chemtrail look like cloudy day chemtrail contain thing harmful human natural world include toxic heavy metal aluminium alzheimer nanotechnology ray kurzweil reveal reason actually say nanobot infuse maĵer information rock tree intelligent creature deliver sky self replicate nanobot connect smart grid phenomenon morgellons disease begin chemtrail era correlation lead dub chemtrail disease self replicate fibre appear body pull skin morgellon fibre continue grow outside body form artificial intelligence cover great length

phantom self vaccine operate system covid vaccine self replicate synthetic material design connection humanity kurzweil cloud american doctor dedicated campaigner truth carrie madej

internal medicine specialist georgia 20 year medical experience highlight nanotechnology aspect fake vaccine explain component moderna pfizer synthetic potion lipid nanoparticle like liĵle tiny computer bit sci-fi substance know nanobot hydrogel trigger moment deliver payload act biosensor synthetic substance ability accumulate datum body like breathing respiration thought emotion kind thing syringe carry million nanobot substance like little bit computer body crazy true obviously ability act wi fi receive transmit energy message frequency impulse

issue address company human imagine get substance react thing 5 g smart device phone happen trigger like impulse frequency completely foreign human madej say research reveal electromagnetic emf frequency emîĵe phone device increase dramatically period vaccine rollout see people radiation problem 5 g electromagnetic technology expand introduce school hospital say floore emf come off device check make total sense sync work decade think moderna refer document mrna vaccine operate system recognize broad potential mrna science set create mrna technology platform function like operate system computer design plug play interchangeably different program case program app mrna drug unique mrna sequence code protein mrna medicines software life concept new mrna medicine begin research fundamental component place generally thing change potential mrna medicine code region actual genetic code instruct ribosome protein utilize instruction set give investigational mrna medicine software like quality ability combine different mrna sequence encode different protein single mrna investigational medicine need real virus create computer version justify infuse operate system entire human race road make live breathe people cyborg miss vaccine digital connection synthetic material body highlight early study hack computer human dna level body digital base mathematical code chapter ridiculously claim mrna vaccine design change human genetic explain word dr tal zaks chief medical officer moderna 2017 ted talk say 30 year live phenomenal digital scientific revolution today tell actually hack software life change way think

revolution today tell actually hack software life change way think prevention treatment cell thing call messenger rna mrna short transmit critical information dna gene protein stuff critical information determine cell think operate system change introduce line code change line code turn profound implication flu cancer zaks accurately say profound implication human genetic code nature dna communication body way hey covid vaccine affect genetic cult fact checker man help develop mrna technique say zaks say 2017 think try take information understanding information information transmit cell take understanding medicine drug fuse

think information therapy write decade body information field communicate wide world radiation information change information field body mind phenomenon like 5 g change nature function information therapy mean change body information field change way operate dna receiver- transmiĵer information mutate information like mrna synthetic messaging technology ready wait underground basis secret project roll covid hoax play trial short irrelevant duration public consumption vaccine experimental true appear experimental know go trial ensure cult get result desire zaks say take decade sequence human genome complete 2003 week mean scientist operate public domain secret project sequence genome week long 2003 deluge mrna highly significantly moderna document say guide premise mrna medicine work disease work disease leverage flexibility afforde platform fundamental role mrna play protein synthesis pursue mrna medicine broad spectrum disease moderna confirme say 2020 multiple vaccine plan covid later invent variant previous vaccine convert mrna system infuse body massive amount genetically manipulate synthetic material secure transformation synthetic biological state vaccine design kill stunning number long expose cult depopulation agenda transform rest give goal appreciate hysterical demand human vaccinate allege disease estimate infection death ratio 0.23 0.15 percent write child give vaccine trial parent disgrace young people offere vaccine virus believe exist virtually zero chance harm

horrific effect trial 12 year old girl reveal family member brain gastric problem include bowel obstruction inability swallow liquid solid unable eat drink throw extreme pain neck abdomen paralyse waist stop urinate unaided girl first take hospital doctor say mind sign trial parent word suffice covid vaccine insanity make sense vaccine body- changer synthetic biology synbio fast emerge expand scientific discipline include genetic molecular engineering electrical computer engineering synthetic biology define way multidisciplinary area research seek create new biological part device system redesign system find nature use mixture physical engineering genetic engineering create new synthetic life form emerge field research aim combine knowledge method biology engineering related discipline design chemically

synthesize dna create organism novel enhance characteristic trait synthetic organism include human synthetic blood skin organ limb develop synthetic body part produce 3d printer element synthetic human programme comment kurzweil co founder singularity university peter diamandis see new light covid hoax sanction refuse vaccine anybody go resist progress forward transhumanism go resist evolution fundamentally die matter good bad go happen resist evolution absolute bollock arrogance people limit go happen mantra way say resistance futile break spirit push fall geĵe genetically- transform vaccine crucial cult plan total control desperation achieve clear vaccine passport major factor form resistance futile paper fund rockefeller foundation 2013 health conference china interact artificial intelligence use robotic bio engineering augment human functioning underway advance engineering human potentially separate unequal form genetic engineering mix human robot raise debate ethic equality new demography project emerge 2030 year technology robotic genetic engineering nanotechnology produce robot engineer organism nanobot artificial intelligence ai self replicate debate grow implication impending reality human design life happen today long plan world army enforce world government intend robot army human today military technologically enhance troop pilotless plane driverless vehicle stepping stone end human soldier cult fodder

plane driverless vehicle stepping stone end human soldier cult fodder time wake work freedom population instead destruction family destruction police join let sort phenomenon enforce destruction widespread covid era woker luvvie acting entertainment industry support covid rule destroy profession public sign door business close covid stay safe reopen form masochism transgender = transhumanism explode suddenly cult agenda tidal wave claim demand infiltrate aspect society heading transgenderism term trans dictionary definition prefix mean occur loanword latin particular denote movement conveyance place place transfer transmit transplant complete change transform transmute form adjective mean cross go place name transmontane transnational trans- transgender mean gender transhuman

mean human aspect cult plan transform human body synthetic state gender human 2.0 design procreate produce technologically need parent new human mean end parent man increasingly woman target deletion right status parental right disappear quicken speed reason new human need man woman procreation gender transgender movement appear permanent state frenzy contemplate transgender right interim excuse confuse gender particularly young road fuse gender transgender activism end means end technique creative destruction destroy status quo build beĵer form want gender status quo destroy persuade cult create woke mentality believe 100 gender programme 9 12 year old produce cult own bbc promote 100 gender narrative idea monumental nonsense true count people believe true gender 2 + 2 = 4 dismantle indoctrination intimidation 2 + 2 = 5 new gender normal place human 2.0 aldous huxley reveal plan prophetic brave new world natural reproduction away child create decant raise hatchery conditioning centre birth people genetically design fit caste split plus minus member design fulfil predetermine position social economic strata world state huxley know 1932 reason george orwell know big brother state 1948 cult insider quote know 1969 know early 1990 connect cult work ball off uncover plan predict future process simple plan

work ball off uncover plan predict future process simple plan world intervene stop happen communicate plan ahead time perceive predict future reveal plan intervention human future reason alert people inspire intervention maybe time come cult intention obvious brain work order future technological womb huxley describe replace parent procreation develop project know public arena israeli scientist tell times israel march 2021 grow 250 cell embryo mouse foetus fully form organ artificial womb development pave way gestate human outside womb professor jacob hanna weizmann institute science say take mouse embryo mother day development 250 cell incubator day day 11 point grow organ day 11 blood beat heart fully develop brain anybody look clearly mouse foetus characteristic mouse go ball cell advanced foetus special liquid nourish embryo cell laboratory dish float liquid duplicate first stage

embryonic development incubator create right condition development hanna say liquid give embryo nutrient hormone sugar need custom electronic incubator control gas concentration pressure temperature cuĵing edge underground basis secret location light year ahead report london guardian 2017 approach biotechnological breakthrough ectogenesis invention complete external womb completely change nature human reproduction april year researcher children hospital philadelphia announce development artificial womb article head artificial womb soon reality mean woman mean child big question mother bond machine preparation life soulless interaction control world govern machine matrix movie observe calculated manipulation covid hoax human interaction warmth curtail distancing isolation fear people communicate machine scale see dot picture personal assistant gadget child toy kid adult communicate ai human ai voice sat- nav include thing psychological preparation cult endgame physical connection ai psychological connection people condition gather human ai interaction movie tv programme depict transhuman robot dystopia relate phenomenon know pre emptive programming world plan portray movie tv advertising condition conscious subconscious mind familiar plan reality dilute resistance happen real shock change young

familiar plan reality dilute resistance happen real shock change young child road transgender transition surgery puberty block drug age able life change rachel levine professor paediatrics psychiatry believe treat child way america highest- rank openly transgender official confirme assistant secretary department health human services aǧer nominate joe biden cult activist government press law deny parent child transition process kid isolate manipulate agree irreversible medical procedure canadian father robert hoogland deny bail vancouver supreme court 2021 remain jail breach court order stay silent young teenage daughter minor offere life change hormone therapy parental consent age 12 girl school counsellor say transgender refer doctor tell school treat like boy example state serve school impose control child life parent contemptible extreme child abuse happen world cult gender fusion operation go warp speed war man woman question artificial womb mean woman rightly ask answer see deletion

woman right involve sport changing room toilet status favour people male body claim identify woman identify mountain climber mean climb mountain biological man biological woman believe triumph belief factual reality perceptual basis wake woman sport destroy allow male body identify female compete girl woman male body woman dominate woman competition great muscle mass bone density strength speed disadvantage sport woman lose meaning perspective nearly 300 american high school boy run fast quick woman sprinter world woman see previously protect space invade male body simply claim identify woman need access woman space activity biden equality act destroy equality woman usual orwellian woke inversion male sex offender commiĵe rape woman prison ağer claim identify woman transfer maĵer woke equality hypocrite maĵer cult manipulator funder transgender activist advance gender fusion way gender human seek impose transparent nonsense like covid hoax way nonsense prevail censorship intimidation dissenter deletion factual information programming unquestioning bewildered naive scan world long thing happen woman right organisation

bewildered naive scan world long thing happen woman right organisation realise right status take long time secure erode systematic kara dansky global women human rights campaign say biden transgender executive order immediately take office subsequent order equality act legislation follow seek erase woman girl law category exactly say long ago start war man woman play crucial go turn war cult phase male female gender away bring conflict busy fighte cult complete job unity response unity people unity need unity transgender town big step gender human right transgender people woke political correctness delete word relate gender end woker believe inclusive opposite true delete word describe gender gender delete human 2.0 term like man woman mother father delete university institution replace gender trans gender individual guardian woman right campaigner maria keffler partners ethical care say child teach kindergarten upward boy vagina girl penis kid gender want believe suddenly country world time idea have drag queen school read transgender story young child local library coldly calculate confusion gender way fusion gender suzanne vierling psychologist

southern california important yesterday slave woman endure gynecological medical experiment today girl- child butcher boom gender transitioning sector ovary remove push menopause osteoporosis uncharted territory parent right authority erosion parental right common theme line cult plan erase concept parent ovary remove push menopause mean bear female lose ability child way discontinue humanity know eliminate human 1.0 eye pave way human 2.0 phase human 1.0 happen plummet sperm count make woman infertile onslaught chemical radiation include smartphone pocket man mrna vaccine common agriculture pesticide have devastating impact human fertility track collapse sperm count book long time 2021 come book fertility scientist reproductive epidemiologist shanna swan count modern world threaten sperm count alter male female reproductive development imperil future human race report global fertility rate drop half 1960 2016 america birth

report global fertility rate drop half 1960 2016 america birth rate 16 percent need sustain population woman experience decline egg quality miscarriage couple suffer infertility finding increase erectile dysfunction infant boy develop genital abnormality male problem conception plunge level male hormone testosterone explain man lose backbone masculinity evident covid hoax woman prominent pushbackers big strap bloke bow head cover face nappy quietly submiĵe mind control expert cathy o'brien point global education introduce concept winner sport classroom competition defuse turn defuse sense fighte version equity doctrine drive raise contrast cult control china global ambition government publish plan january 2021 cultivate masculinity boy kindergarten high school face masculinity crisis government adviser say boy soon delicate timid effeminate action take expect similar policy target west 2006 study show 65 year old man 2002 testosterone level 15 percent low 65 year old man 1987 2020 study find similar story young adult adolescent man geĵe prescription testosterone replacement therapy cause great drop sperm count 99 percent see sperm count drop zero treatment sperm defective malfunction have head pursue egg class synthetic chemical know phthalate blame decline find plastic shampoo cosmetic furniture flame retardant personal

care product pesticide canned food receipt till receipt touch let delude systematic advance long time agenda human body transformation phthalate mimic hormone disrupt hormone balance cause testosterone fall genital birth defect male infant animal fish affecte way phthalate toxin river fish turn gay change sex chemical river stream pointer increase gay people sexually confused maĵer sexuality people choose affected chemical pollution consumption need know think connect transgender agenda war man condemnation male toxic masculinity watch follow toxic femininity happen breastfeeding chest feeding pregnant woman

pregnant people woke claptrap know world go insane cult scam progress transgender activist promote cult agenda cult billionaire support fund insanity laugh sleep sheer stupidity human infamous galaxy far far away covid vaccine female infertility vaccine connect potential infertility woman dr michael yeadon vice president chief scientific advisor pfizer dr wolfgang wodarg germany file petition european medicines agency december 2020 urge stop trial pfizer biontech shot mrna trial study particularly concerned possible effect fertility vaccine'-produced antibody aĵacke protein syncytin-1 responsible develop placenta result infertility indefinite duration woman vaccine placenta fail form section 10.4.2 pfizer biontech trial protocol say pregnant woman mrna shot section 10.4 warn man take mrna shot abstinent heterosexual intercourse donate sperm uk government say know mrna procedure effect fertility know people jail uk government advice recommend start pregnant woman shot say avoid pregnancy month ağer vaccination advice later update pregnant woman vaccine benefit outweigh risk mother foetus hell suppose mean spontaneous abortion begin appear rapidly increase adverse reaction reporting scheme include fraction adverse reaction thousand grow number vaccinate woman describe change menstrual cycle heavy blood flow irregular period menstruate ağer go menopause link reproduction effect woman pass blood clot lining uterus man report erectile dysfunction blood effect significantly unvaccinated woman begin report similar menstrual change ağer interaction vaccinated people man child affecte bleed nose

blood clot condition shedding vaccinated people emit content vaccine affect unvaccinated different vaccinated people shed live virus allegedly vaccine fake covid vaccine involve synthetic material toxicity doctor expose happen prefer term transmission shedding shot transmiĵe effect dr carrie madej say nano content vaccine act like antenna fit perfectly conclusion vaccine transmission phenomenon know book go production deal postscript vaccine effect sterility know world health organization accuse 2014 sterilise million woman kenya evidence confirme content vaccine involve covid hoax admiĵe involvement year vaccine programme

content vaccine involve covid hoax admiĵe involvement year vaccine programme country similar claim charge lodge tanzania nicaragua mexico philippines gardasil vaccine claim protect genital virus know hpv link infertility big pharma thing criminal satanic entity bill gates foundation connect funding share interest 20 pharmaceutical giant laboratory stands accuse direct policy united nations children fund unicef vaccine alliance gavi grouping advance vaccine agenda silence opposition great cost woman child time gates want reduce global great reset = smart grid = new human cult agenda expose 30 year openly promote cult asset like gates klaus schwab world economic forum code term like great reset build beĵer rare narrow window opportunity reflect reimagine reset world provide rare narrow window opportunity covid hoax create book long ago warn plan internet things iot implication human freedom plan connect technology internet artificial intelligence today way road estimate 36 billion device connect world wide web figure project 76 billion 2025 warn cult plan internet human brain connect ai internet kurzweil cloud cult operative like schwab

call precisely term internet bodies fusion physical digital biological centrally control smart grid system cult refer fourth industrial revolution talk biological mean synthetic biological require fully integrate human body brain smart grid artificial intelligence plan replace human mind synthetically manipulate include natural world gmo smart dust food eat human body synthetic

vaccine say answer cult push synthetic meat replace animal february 2021 predictable psychopath bill gates call introduction synthetic meat save climate change climate hoax keep give like covid hoax war meat vegan activist carbon oops sorry copy manipulation transgender activist idea inner core promote impose agenda cult vehicle reason choose eat meat respect support right ulterior motive power forbes article december 2019 highlight plan beloved schwab cult heading internet body change world article say human body late data platform remember vaccine operating system forbes describe plan accurately word come straight book long internet bodies iob extension iot basically connect human body network device ingest implant connect body way connect datum exchange body device remotely monitor control describe human hive mind human perception centrally dictate ai connection allow people remotely monitor control fridge human mind direct central point insane psychopath covid vaccine crucial forbes explain process mention early holdable wearable technology follow implantable article say generation internet bodies body external wearable device apple watches fitbits monitor health body internal include pacemaker cochlear implant digital pill inside body monitor control aspect health body embed generation internet bodies embed technology technology human body meld real time connection remote forbes note development brain computer interface bci merge brain external device monitor control real time ultimate goal help restore function individual disability brain signal conventional neuromuscular pathway oh fuck off. goal brain interface technology control human thought emotion central point hive mind serve master wish people agree chip open door key recognise wear mask

wish people agree chip open door key recognise wear mask social distancing line vaccine cult plan great reset money system ağer complete demolition global economy money exchange communication body operate system rand corporation cult own think tank say internet bodies iob internet bodies technology fall broad iot umbrella suggest iob device introduce intimate interplay human gadget iob device monitor human body collect health metric personal

information transmit datum internet device fitness tracker use iob device development track record store user whereabout bodily function hear think schwab world economic forum long winded way say fascism cult go internet bodies covid era enter era internet bodies declare collect physical datum range device implant swallow wear result huge health relate datum improve human wellbeing world prove crucial fighte covid-19

pandemic think clown care human wellbeing ağer death devastation pandemic hoax purposely cause schwab co forward internet bodies keep track symptom help stop spread infection quickly detect new case wonderful keep track bother researcher investigate datum gather smartwatche similar device viral infection alert track user heart rate breathing schwab say 2018 book shape future fourth industrial revolution line technology being blur ability create lifelike robot synthetic instead ability new technology literally technology influence understand think determine reality technology deep access part begin integrate digital technology game hour control people know ping circulation obvious rush global fascist dictatorship complete submission humanity lock away cult induce perceptual coma smart grid control centre human body transform vaccine way synthetic cyborg aĵached global smart grid control central point sub- location grid manipulation plan china start cult big centre operation technological control system technocratic rule incubate unleash world ağer covid hoax come china 2020 smart grid location surprise people new israel expose trigger sabbatian technocrat intelligence military operative horror 9/11 ` 19

arab hijacker manifest ability pilot big passenger airliner instructor puddle jumping flye school describe joke 9/11 aĵack possible control civilian military air computer system white house pentagon connect agency trigger blow mind control coordinate force sabbatian network israel united states infiltrate entire government military intelligence system real american deep state sabbatian state israel tiny country million people global centre cyber operation fast catch silicon valley importance cult israel know start nation cyber company spawn sabbatian

specialisation cyber security mention early give company access computer system client real time backdoor wriĵen coding security soğware download sabbatian centre cyber operation outside silicon valley israeli military cyber intelligence unit big infrastructure project israel history headquarter desert city beersheba involve 20,000 cyber soldier locate literal army internet troll scan social medium forum comment list challenge cult agenda uk military similar 77th brigade associate operation beersheba complex include research development centre cult packard cisco systems facebook motorola techcrunch.com run article beersheba global internet technology centre headline israel desert city beersheba turn cybertech military massive relocation prestigious technology unit presence multinational local company close proximity ben gurion university generous government subsidy turn beersheba major global cybertech hub beersheba ingredient vibrant security technology ecosystem include ben gurion university graduate program cybersecurity cyber security research center lockheed martin future home incb israeli national cyber bureau offer special income tax incentive cyber security company site relocation army intelligence corps unit sabbatians take cyber world following process scan school likely cyber talent develop ben gurion university period conscription israeli defense forces station beersheba complex cyber talented officially leave army fund start cyber company technology develop give state steal backdoor computer system world america list send off silicon valley start company join major one major position fille apparently jewish sabbatian operative google youtube facebook run jewish ceo twiĵer run ultra zionist

google youtube facebook run jewish ceo twiĵer run ultra zionist hedge fund shark paul singer centre sabbatian global cyber web israeli army unit 8200 specialise hack computer system country insert virus gather information instigate malfunction take control distance long list sabbatians involve 9/11 silicon valley israeli cyber security company operative unit 8200 israel cult israel plan smart grid hub china happen beersheba benefit jewish people treat disgustingly sabbatian elite control country glance nuremberg codes tell story big covid

important take time strap control cult awake arise forever fall'n john milton paradise lost expose far level cult conspiracy operate world seen global secret society satanic network operate shadow step see story go deep covid hoax major cult agenda grasp big picture expand aĵention realm human sight infinity possibility ultimately humanity manipulate state total control force dictate action cult reality damn answer appear space eye survey observe liĵle truth human world tiny band frequency body visual perceptual system decode perception world accord mainstream science electromagnetic spectrum 0.005 percent exist universe fig 10 maximum estimate see 0.5 percent way miniscule far far small 0.005 percent compare reality totality reality new information visible light band frequency fraction 0.005 percent fig 11 overleaf realise universe infinite universe universe fragment overall reality infinite reality compare infinitesimal frequency band visible light human sight human near blind possible actually artist filmmaker sergio toporek figure 10 human perceive tiny band visual reality laughable figure 11 smear 0.005 percent electromagnetic spectrum know yep make sense consider 1 electromagnetic spectrum hear 1 acoustic spectrum 90 cell body carry microbial dna atom body 99.9999999999999999 space one bear human being 46 chromosome potato existence rainbow depend conical photoreceptor eye animal cone rainbow exist look rainbow create pretty amazing especially consider beautiful colour represent 1 electromagnetic spectrum suddenly world human look different place account

1 electromagnetic spectrum suddenly world human look different place account planet earth compare project size single universe equivalent billionth pinhead imagine ratio compare infinite reality think christianity insist earth humanity centre background vital go appreciate nature human manipulate unseen force human visual reality virtually unseen prevail perception institution public touch hear taste smell exist perception indoctrinate encourage cult agent isolate believer strictly limited village idiot realm five sense perception firewalle information control perpetuate world insanity indoctrinate believe delusion major player influencer know official reality laughable science academia medicine believe nonsense peddle

teach succeed generation challenge orthodoxy dismiss nuĵer freak protect manufacture illusion exposure observe dynamic covid hoax take form inner circle psychopath know gigantic scam entirety impose fascist rule believe covid tell ask people place birth location job family background life story experience difference absolutely crucial true eternal infinite consciousness state aware forget form vehicle brief experience consciousness come brain brain symbolic literal awareness pure awareness withdraw body death continue eternal beingness isness realm reality limitlessness infinity biblical mansion father house label human life man woman transgender black white brown nationality circumstance income awareness experience brief connection band frequency human label self use title book phantom self david icke bear leicester england april 29th 1952 consciousness have experience cult non human master seek convince institution education science medicine medium government experience easy control direct perception lock away bewildered illusion five sense humanity aware true self true power consciously create reality experience possible day day perceive liĵle power impact life world life experience reflect hand power think authority form use control experience turn appear confirm perception liĵle self fulfille feedback loop liĵle perception big infinite cult forget prevail manipulate pressure self identify human label consciousness awareness experience human phenomenon identity politic cult instigate manipulation technique sub divide previous label small one

cult instigate manipulation technique sub divide previous label small one united states university employ list leĵer describe student identity lgbttqqfagpbdsm lesbian gay bisexual transgender transsexual queer question flexual asexual gender fuck polyamorous bondage discipline dominance submission sadism masochism sure list long people feel need self identity minutia race sexual preference woker program cult generation believe inclusivity cult lock away small small version phantom self firewalle influence true self infinite eternal notice philosophy contend unique point aĵention awareness infinite oneness ultimate non racism sense oneness make judgement people body type colour sexuality uĵerly ridiculous confirm

racism understanding reality include anti white racism despite perception life cult agent fast asleep woker label racist discredit information phenomenally racist sexist race sexuality judge people good bad demon untouchable race sexuality phantom self perceive term phantom self pawn puppet cult agenda focus aĵention self identity five sense play identity divide rule columbia university introduce segregated graduation version social distancing design drive people apart teach different racial cultural group common thing cult want unity pump- primer cult operative knowledge phantom self blind common consciousness have different temporary experience human yes human suppose right mean human true human experience break basic human way information process experience interact band frequency world vehicle operate band frequency consciousness prime form way frequency human realm consciousness awareness tap key pick cup way radio station interact radio station b different frequency human body mean interaction long describe body biological computer process information way allow consciousness experience reality body receiver transmiĵer processor information particular way human visually perceive world five sense wakened state limit body visual decoding system truth visual way experience visual reality come moment human body process information source human reality behaviour system perceive human elephant act like elephant like human duck elephant biological computer different information field process information accord

duck elephant biological computer different information field process information accord program visual behaviour type elephant apply reality body information field perpetuate procreation like make copy soǧware program cult want break cycle intervene technologically transform human information field change humanity change human information field change way field process information change humanity physically psychologically messenger information rna vaccine target human genetic change body information messaging construct food drink radiation toxicity mean reality experience like reality way reality people experience virtual reality game reality live game decode source information appear reality world

information construct simulation later base form reality wavefield information theme wi fi five sense decode wavefield information electrical information communicate brain decode holographic illusory physical information different part brain specialise decode different sense information fuse reality appear outside inside brain genetic structure general fig 12 overleaf dna receiver transmiĵer information vital decoding process body connection reality change dna change way decode connect reality covid vaccine think computer decode wi fi information encode radiation field computer decode information different form screen wi fi information manifest screen information screen inside computer outside describe decode human world five sense decode waveform wi- fi field electrical signal brain computer construct reality inside brain outside look rainbow create sound simple example hear sound brain decode waveform sound wave pick hearing sense communicate brain electrical form decode sound hear hear inside brain feel smell taste word language waveform field generate vocal chord pass process decode brain word hear different language different frequency field sound wave generate vocal chord late british philosopher alan waĵs say figure 12 brain receive information sense construct brain world devoid light heat weight solidity motion space time imaginable feature phenomenon interaction transaction vibration certain arrangement neuron exactly scientist robert lanza describe book biocentrism decode electromagnetic wave energy visual physical experience use example flame

decode electromagnetic wave energy visual physical experience use example flame emiĵe photon electromagnetic energy pulse electrically magnetically invisible electromagnetic wave strike human retina wave happen measure 400 700 nano meter length crest crest energy right deliver stimulus 8 million cone shaped cell turn send electrical pulse neighbour neuron line go 250 mph reach occipital lobe brain head cascade complex neuron fire incoming stimulus subjectively perceive experience yellow brightness occur place condition external world hear decode tree fall building collapse noise decode energetic wave generate disturbance sound fall tree noise hear decode reality frequency field information operate overall wi fi field field

vibrational disturbance generate field field fall tree building disturbance wave decode sound fall noise reality create observer decoder perception observer affect decoding process reason different people different perception perceive reality situation different way perceive nightmare opportunity question cult focused control human perception answer experience reality act decoding experience wi fi decode computer screen sight sound internet video encode wi fi hear computer decode information taste smell touch phenomenon brain result process taste smell feel brain pain relief technique seek block signal site discomfort brain brain decode signal feel pain pain brain appear point impact thank feedback loop electrical information sight sense decode area brain area damage blind eye perfectly okay blind damage eye damage information processing waveform visual information visual decoding area brain information reach brain form decode visual reality represent brain decode fraction information receive rest absorb sub conscious mind explanation science magazine

second

11 million sensation crackle brain pathway brain confront alarming array image sound smell rigorously filter leave manageable list 40 40 sensation second perceive reality world people tell believe inner circle cult know illusory physical reality smear 0.005 percent universe vast array universe mansion infinite reality brain decode 40 piece information sensation potential 11 million receive second point strike immediately sheer breathtaking stupidity believe know rigidly know potential process manipulate malevolent force control reality population thing sure risk contradiction perceive indescribable fraction infinite reality know tidal wave ancient greek philosopher socrates right say wisdom know liĵle know obviously true think experience physical world solidity physical solid world apartness connect cult control science dismiss so-call paranormal phenomenon relate para'-normal perfectly normal explain allege great mystery dumbfound scientific mind reason scientific mind term mainstream material mind five sense mind imprison touch hear smell taste phenomena happening explain way leave

scientific mind bewildered rule account happen definition happen beg differ telepathy think wave pass field think wave disturbance decode able connect wavelength information example pick thought wave friend distance bring mind minute later friend call god incredible think ah think decode native people entrap five sense reality know bush telegraph know dimension reality mind maĵer come fact maĵer mind state influence state illusion aspect field paranormal phenomenon explainable consider mystery happen road understanding begin expand awareness five sense nightmare figure 13 hologram solid good one appear figure 14 hologram create capture waveform version subject image reality solid holographic aware hologram widely today dimensional information decode dimensional reality solid appear fig 13 hologram create laser divide part go directly holographic photographic print reference beam take waveform image subject working beam direct print collide half laser fig 14 create waveform interference paĵern contain wavefield information photograph fig 15 overleaf process liken drop pebble pond wave

photograph fig 15 overleaf process liken drop pebble pond wave generate spread water collide create wave representation stone fall speed weight distance waveform interference paĵern hologram akin waveform information field five sense decode electrical signal decode brain holographic illusory physical reality way laser think human aĵention direct waveform interference paĵern dimensional version subject project apparently solid reality fig 16 amazing trait hologram reveal paranormal mystery information hologram encode waveform interference paĵern way create mean hologram small version cut interference wave paĵern will part image quarter sized version image body hologram apply basis acupuncture reflexology form healing identify representation body part hand foot ear skilled palm reader information body encode hand concept come figure 15 waveform interference pattern hold information transform figure 16 holographic people include elvis holographically insert sing duet question ask solidity illusory walk wall resistance solid solid electromagnetic field electromagnetic field decode experience solid solid

underestimate power belief dictate reality believe impossible belief impact decoding process will decode think impossible believe perceive perceive experience do impossible like firewall computer system will screen firewall block vital understand human experience hijacke explain answer need know tell book long list mystery paranormal phenomenon mysterious perfectly normal realise reality work ghost see pass solid wall wall solid ghost discarnate entity operate frequency different wall like radio station share space interfere see ghost apartness people object illusion connect field like sea life connect sea limit visual reality holographic information field information connect holographic world manifest holographic object field connect appear unconnected way computer see wi fi know hurt okay return world human society cult global network interconnect secret society satanic group manipulate government corporation medium religion etc fundamental difference knowledge idea humanity ignorant plan total enslavement underpin crucial ignorance reality interact human interaction expand eternal consciousness

five sense body experience mean world term five sense world relation great consciousness perspective state experience small picture five sense wide context big picture awareness five sense way five sense dot expanded awareness connect picture paĵern context apparently random unconnected context expand awareness five sense apartness randomness apparently meaning cult dimensional controller seek intervene frequency realm five sense reality suppose connect expand reality apart final chapter happen five sense mental emotional process long influence expand awareness true instead drive isolated perception body decoding system world human plight humanity potential infinite awareness easily manipulatable descend extreme stupidity cult isolate five sense mind expand awareness program mind perception belief control information mind receive education system formative year medium perceptual bombardment censorship entire lifetime limit perception sense possible limit knowledge limit skew information censor discredit set people free title book say

truth shall set free reason thing cult want circulation truth especially reality eternal desperate control information cult know information perception behaviour collectively human society cult control fund mainstream science deny existence eternal seek dismiss trash evidence contrary cult control mainstream religion version god liĵle system control dictatorship employ threat damnation aĝerlife control perception behaviour fear guilt true cult wish suppress expression point aĵention infinite state consciousness real meaning term god perceptual obsession physical body five sense mean god personified bearded bloke siĵe cloud rage bully love want condemn fire hell spiritual fairy tale control dictate event behaviour fear god bizarrely god- fear religious circle state desire suggest fear encourage celebrate delete god fearing beneficial cult religion decide god want god demand cult demand great american comedian bill hicks say satirise christian zealot think god mean infinite awareness god access decide far choose expand perception self identity sense possible scale self identity reflect scale awareness connect influence knowing insight instead program perception expand

scale awareness connect influence knowing insight instead program perception expand awareness infinity possibility believe liĵle peter postman mary marketing deal conclude chapter crucial turnaround current event cult come realise early 1990 cult network global event ask obvious question start take ancient rome egypt babylon sumer mesopotamia land river iraq river tigris euphrates region immense historical importance cult land call israel 550 mile away air go deep esoteric meaning region war oil priceless artefact mesopotamia steal destroy aĝer american british invasion iraq 2003 justified lie boy bush tony blair cult master non existent weapon mass destruction mesopotamia location sumer 5,400bc 1,750bc babylon 2,350bc 539bc

sabbatians immensely influential cult modern time network go mist history sumer say historian cradle civilisation disagree start human civilisation aĝer cataclysmic event symbolise great flood destroy world exist fantastic upheaval describe detail book early1990 appear

account legend ancient culture world support geological biological evidence stone tablet find iraq detail sumer period cataclysm cause non- human god anunnaki describe term extraterrestrial visitation knowledge supply anunnaki say source world old writing system development astronomy mathematic architecture way ahead time cover subject length big secret children matrix basic anunnaki story find zulu account south africa late great zulu high shaman credo mutwa tell sumerian anunnaki know zulus chitauri child serpent hour video interview credo subject entitle reptilian agenda record home near johannesburg 1999 watch ickonic medium platform cult emerge sumer babylon egypt establish roman empire expand romans northern europe empire savagely impose form cult control society world mass death destruction calling card cult establish centre operation europe european empires cult empire allow expand global force spanish portuguese colonialist head central south america british french target north america africa colonise britain france belgium netherlands portugal spain italy germany like britain france move middle east british empire far big simple reason britain headquarters cult expand form canada united states australia new zealand sun set british empire scale occupation london remain global centre cult rome vatican emerge israel china accident virus allege come china italy choose means terrify western population compliance covid fascism israel lead world covid fascism mass vaccination think mention united states important means impose cult significant appear currently process have power delete cult europe load gun fire america control europe start cult operative britain europe american revolution illusion appear america govern different force pull string form cult family rothschilds rockefellers subordinate rockefellers extremely close bill gates establish scalpel drug medicine world health organization

close bill gates establish scalpel drug medicine world health organization play major role development circulation vaccine rockefeller foundation bill gates say foundation base case rockefellers gates team cult infiltration human society go way history constantly expand centralise power goal establish global structure dictate look advance great leap covid hoax

non human dimension research observe coming going cult operative century thousand year bear work promote agenda secret society satanic network die replace clearly coordinate force span entire period operative see end goal lifetime come go advance plan millennium go search coordinate force usual support extraordinary synchronicity life daily experience 1990 see common theme

religious text ancient culture non human force manipulate human society hidden christianity call force satan devil demon islam refer jinn djinn zulus chitauri spell way different part africa gnostic people egypt period 400ad refer phenomenon archons word mean ruler greek central american culture speak predators name theme use archons collective nature behaviour describe different source clearly talk force gnostic describe archons term luminous fire islam relate jinn smokeless fire refer being form occasionally see common common theme operate unseen realm mean existence visual process human conclude foundation human control cult operate human frequency band behalf hidden force come writing gnostics support conclusion extraordinary way sealed earthen jar find 1945 near town nag hammadi 75 80 mile north luxor bank river nile egypt inside treasure trove manuscript text leğ gnostic people 1,600 year early include 13 leather bind papyrus codex manuscript 50 text wrîĵen coptic egyptian estimate hide jar period 400ad source information go gnostic oversee great royal library alexandria fantastic depository ancient text detail advanced knowledge account human history library dismantle destroy stage long period death blow deliver cult establish roman church period 415ad church rome church babylon relocate say early gnostic race way perceive reality establish information circulate terrorist church rome target destruction happen great library gnostic cathars burn death psychopath ağer long period oppression siege castle monségur southern france 1244 church terrifie gnostic information demolish official christian narrative bible support gnostic view read way study text know nag hammadi library clear great swathe christian biblical belief origin gnostics source go sumer gnostic theme twist manipulate perceive reality bible believer biblical text open century change gnostic document

find nag hammadi seal away untouched 1,600 year write use pneuma nous gnosticism gnostic come gnosis mean knowledge secret knowledge sense spiritual awareness knowledge reality life desperation cult church rome destroy gnostics

awareness knowledge reality life desperation cult church rome destroy gnostics understand knowledge circulate thing cult want population know sixteen year later cult work hard undermine silence reason dynamic knowledge ignorance constant time appear essential theme remain tell use nous gnostic word head brain intelligence say spiritual awakening salvation secure expand awareness call nous pneuma infinite self obviously read text parallel say 1990 fascinating universal truth span human history case talk language 16 century apart free perception program five sense explore expand realm consciousness go connect information maĵer perceive era manufacture timeline single tiny range manipulate frequency human work smart technology knock rock cave timeline appear operate human frequency band expand awareness knowledge hold era stone age computer age access knowledge open frequency five sense prison cell zuckerberg brin page wojcicki bezos covid hoax clearly long wait range frequency connection give open heart crucial shall instead access knowledge directly expand awareness give cult operative secret society network cult pass thousand year outside public arena expanded realm consciousness great artist composer writer find inspiration truth await open connect need fast

fiğh nag hammadi text describe existence manipulation archons lead chief archon yaldabaoth demiurge christian devil satan lucifer demon archon biblical symbolism fallen one refer fallen angel ağer angel expel heaven accord abrahamic religion judaism christianity islam angel claim tempt human sin ongoing accurate symbolism rest book theme original sin relate fall adam eve tempt serpent fall state innocence obedience connection god state disobedience disconnection fall say bring sin world corrupt include human nature yaldabaoth lord archon describe gnostics counterfeit spirit blind blind god foolish jewish yaldabaoth talmudic writing

samael translate poison god blindness god parallel yaldabaoth islamic belief muslim jinn devil know shaytan shaytan satan theme find world religion culture lord god old testament lord archon gnostic manuscript bloodthirsty bastard satan know christians demon demons gnostics call yaldabaoth archon archons know deceiver talk bloke sure common theme different name storyline symbolism tell common tale human plight archon refer nag hammadi document mind parasite inverter guard gatekeeper detainer judge pitiless one deceiver covid hoax glaring example thing biblical god different old new testaments describe phenomenon vindictive angry hate-filled god old testament know yahweh yaldabaoth depict cult dictate popular culture dark lord lord time lord darth vader dormammu evil ruler dark dimension try earth dimension marvel comic movie dr strange yaldabaoth old testament god biblical satan gnostic refer yaldabaoth great architect universe'and cult control freemason network call god great architect universe grand architect great architect yaldabaoth symbolise cult all- see eye pyramid great seal united states dollar bill archon encode arch itect arch angel arch bishop religion theme force good force evil sort spiritual war reason theme true cult non human master happy circulate present force good fighte evil force evil absence love foundation cult modus operandi inversion promote force good challenge pursuit peace love fairness truth justice condemn satanic force evil

pursuit peace love fairness truth justice condemn satanic force evil game plan history church rome inquisition non believer conspiracy theorist anti vaxxer today technique yaldabaoth revolt true yaldabaoth archon say revolt god yaldabaoth claim god old testament god yaldabaoth demand worship lord god isaiah 45:5 quote book man say unofficial son late baron philippe de rothschild mouton rothschild wine produce estate france die 1988 tell rothschild revolt god man say give phillip eugene de rothschild share long correspondence year ago live identity say conceive occult incest cult normal admire phillip tell experience aĵende satanic ritual rich famous people name wide background cult satanism book start big secret cult ritual interaction archontic god phillip describe baron philippe de rothschild master

satanist hater god term revolt god associate yaldabaoth satan lucifer devil describe sabbatian rothschild dynasty play key role family revolt god say role infiltrate classic sabbatian style christian church eventually escape mind prison live life cult target religion plan worship archons global world religion infiltration satanism modern culture especially young music video stage show mean nag hammadi text describe yaldabaoth archons prime form energy consciousness form choose way consciousness take form human yaldabaoth call formless represent deeply invert distorted chaotic state consciousness seek aĵached human turn likeness aĵempt assimilation happen manipulate human low frequency mental emotional state match archons certainly appear human form origin psychopathic personality energetic distortion gnostics call yaldabaoth psychopathy psychopathic archons human form human psychopath expression yaldabaoth consciousness cult psychopath archons human form principle portray 2009 avatar movie american military travel fictional earth like moon call pandora alpha centauri star system infiltrate society blue people na'vi hide body look like na'vi archon pose human particular hybrid information field human archon ancient demigod process information way manifest behaviour match psychopathic evil lack empathy compassion stop influence empathy compassion love

psychopathic evil lack empathy compassion stop influence empathy compassion love fully human information field capable express cult bloodline interbreed royalty dark suit reason obsession incest interbreed blown human dilute archontic energy field guarantee psychopathy representative human realm gnostic writing main non human form archons serpentine call decade reptilian amid unbounded ridicule archontically program gnostics describe unborn baby foetus grey skin dark unmoving eye excellent representation et greys ufo folklore large number people claim see abduct zulu shaman credo mutwa agree believe extraterrestrial interdimensional visitation today thousand year past wonder advanced knowledge technological capability perceive worship god technological miracle appear perform imagine arrive culture disconnect modern world smartphone computer see god

capable miracle renegade mind want know source way source manifest human non human way renegade mind seek original source material covid virus claim true original source archons form consciousness distorted state consciousness know gnostics yaldabaoth revolt god energetic disconnection go lot sense religious text ancient legend relate satan lucifer god gnostic description sync perfectly theme research year describe consciousness distortion seek impose human consciousness refer core infinite awareness previous book infinite awareness awareness mean level awareness know awareness aware awareness come frequency love true sense balance love level balance force single call oneness isness disconnect state love god constituent part oneness start unravel express individualised intellect mind selfishness hatred envy desire power like problem great scheme god experience possibility different expression include human expression experience experience experience withdraw state oneness disconnect influence thing unpleasant stupid archontic consciousness extreme end disconnect influence oneness inversion unity love inversion inversion life evil appropriately live wriĵen backwards archontic consciousness obsess death inversion life manifestation satanism obsess death use inverted symbol ritual inverted pentagram cross sabbatians archontic consciousness incarnate invert judaism religion culture infiltrate seek disunity chaos fear unity harmony fear love like garlic vampire

disunity chaos fear unity harmony fear love like garlic vampire result cult archons incarnate act evil psychopathy lack empathy compassion disconnected source love bill gates rest archontic psychopath human society covid era death suffering destruction involve emotional consequence impact know zuckerberg brin page wojcicki company callously censor information warn danger vaccine thousand die have severe life- change reaction know tedros fauci whiĵy vallance like world case death figure aware fraudulent justify lockdown death destroy life come know christian drosten produce promote testing protocol know test infectious disease lead global human catastrophe know archontic mind shit fig 17 personally think gates major cult insider form ai cyborg archons want human figure 17 artist neil hague

version covid hierarchy state inversion consequence level disconnection source mean withdraw source energetic sustenance creativity mean find supply energetic power morpheus character first matrix movie hold baĵery speak profound truth say matrix computer generate dream world build control order change human statement true respect live technologically generate virtual reality simulation shortly manipulate energy source archontic consciousness disney pixar animate movie monsters inc. 2001 symbolise dynamic monster world energy source enter human world terrify child bed catch child scream terror low vibrational frequency energy power monster world lead character remember single giant eye symbolism cult see eye obvious thought emotion broadcast frequency unique thought emotion feeling love joy empathy compassion high quick frequency fear depression anxiety suffering hate low slow dense frequency kind think archontic consciousness connect absorb low dense frequency state way connect energy love joy archons feed off energy compatible frequency cult agent want delete human world love joy manipulate transmission low vibrational frequency low vibrational human mental emotional state energy source war energetic banquet archons world war think low frequency mental emotional energy generate consequence humanity covid hoax orchestrate archons incarnate like gates ancient

consequence humanity covid hoax orchestrate archons incarnate like gates ancient practice human sacrifice god continue secret today cult base principle god archontic consciousness different form sacrifice induce state intense terror generate energy archontic frequency absorb incarnate archons ritual drink blood contain adrenaline crave flood bloodstream people terrorise sacrifice ancient modern child theme sacrifice young virgin god code child particular pre puberty energy archons want energy young general target california department education want student chant name aztec god archontic god worship human sacrifice ritual curriculum design encourage challenge racist bigoted discriminatory imperialist colonial belief join social movement struggle social justice build new possibility post racist post systemic racism society usual woke crap invert racism call anti- racism case solidarity

indigenous tribe excuse chant name god people sacrifice secret example woke inability black white condemn colonisation tribal culture europeans right culture sacrifice people include child god mass murder untold number aztecs fine chant aztec god tezcatlipoca man sacrifice 5th month aztec calendar heart cut eat oh okay come child ağer sacrificial god young chant allegiance include quetzalcoatl huitzilopochtli xipe totec curriculum say chant affirmation energizer bring class build unity ethnic study principle value reinvigorate class follow lesson emotionally taxing student engagement appear low cover story chanting mantra repetition particular frequency generate vocal cord chant name archontic god tune frequency thing want allow energetic synchronisation aĵachment perceptual influence initiate chant name god ritual reason vampire woke paedophilia way archons absorb energy child paedophile possess archontic consciousness conduit sexual abuse discarnate archons vampire energy young desire stupendous number child disappear year see know medium imagine low vibrational energy generate child covid hoax depress psychologically destroy point kill shocking number child take state love parent hand tell long experience research 1996 end

paedophile asset cult

corrupt cult own social service reframing era hire psychopath emotionless automaton job child steal order spurious reason corrupt secret corrupt family court wriĵen detail book start big secret 1997 ubiquitous connection political corporate government intelligence military elite cult operative satanism paedophilia deep network interlock leadership woke mentality develop cult reason promote aspect agenda hijack traditional political leğ turn fascist divide rule target agenda pushbacker reason relate describe happy joyful wokers especially extreme end mental psychological mess consume emotional stress constantly emotionally cock explosion indignation refer female female walk talk baĵeries morpheus emiĵe frequency enslave low vibrational bubble perceptual limitation feed archons add hatred claim love fascism claim anti fascism racism claim anti racism exclusion claim inclusion abuse-fille

internet trolling purpose build archontic energy system wind turbine sight found archontic inversion generation manipulate serve archons snap archon induce trance surprise cult billionaire corporation money way energy joy laughter include laugh confirmation emotional security mark twain say human race effective weapon laughter use time woke destroy comedy humour joy sense irony self deprecation energy dense intense mmmmm lunch say archontic frequency rudolf steiner 1861 1925 austrian philosopher famous esoteric thinker establish waldorf education steiner school treat child like unique expression consciousness mind program perception determine authority write energy vampiring decade send 2016 quote steiner spot being spiritual realm anxiety fear emanate human being offer welcome food human anxiety fear creature starve fear anxiety radiate people break panic creature find welcome nutrition powerful being hostile humanity feed negative feeling anxiety fear superstition despair doubt reality hostile force super sensible world launch cruel attack human being feed exactly feeling belong contemporary culture materialism estrange people spiritual world especially suit evoke hopelessness fear unknown people call mention hostile force pause moment perspective reflect happen world start 2020 penny drop billion dollar bill theme don juan

start 2020 penny drop billion dollar bill theme don juan matus yaqui

indian shaman mexico information source peruvian bear writer carlos castaneda

write series book 1960 1990s don juan describe force manipulate human society archons predator come depth cosmos take rule life human being prisoner predator lord master render docile helpless want protest suppress protest want act independently demand hold prisoner take food squeeze mercilessly sustenance rear chicken coop predator rear human coop humanero food available different culture different era recur theme ennoia dilemma nag hammadi gnostic manuscript archon consciousness ennoia directly translate intentionality use

term creative imagination awareness source creativity possibility disconnected source subsequently deny creative imagination give archon consciousness entirely disconnected severely lack creativity rely far mechanical process thought exploit creative potential ennoia case human society archon consciousness entirely dominate global banking system study system work appreciate mean bank manifest money issue line credit money exist theory confidence trick think credit figure screen money worth accept payment system collapse lack confidence value money archontic banker ennoia lend money exist human creativity inspire idea create business product archon banking feed off human creativity control money creation debt human creativity archons exploit benefit control have archon internet platform post archontic mind like zuckerberg officially head company human creative staff provide creative inspiration limitless money buy company establish creative human witness acquisition record facebook google like survey archon control music industry non creative dark suit executive make fortune human creativity artist case endless research history people like gates zuckerberg empire build exploit creativity archon mind create skilled gnostic text countermimicry imitate innovate sabbatians trawl creativity backdoor install computer system cybersecurity system archon control china globally infamous steal intellectual property remember hong kong china notorious make counterfeit copy creativity countermimicry pervasive see surveillance system able infiltrate computer appreciate potential archons vampire creativity human author john lamb lash write book nag hammadi text image originate lack divine factor ennoia intentionality archon imitate vengeance expertise simulation

lack divine factor ennoia intentionality archon imitate vengeance expertise simulation hal virtual reality demiurge yaldabaoth fashion heaven world copy fractal pattern original construction celestial kitsch like fake italianate villa mafia don complete militant angel guard portal bring speak turn millennium reality simulation virtual reality think real kid human reality virtually ponder year reality real kind construct remember immensely affected visit

small child late 1950s newly open planetarium marylebone road london close adjacent madame tussauds wax museum middle day light go night sky project planetarium domed ceiling appear real experience leğ know turn millennium certain night sky entire reality projection virtual reality akin illusory world portray matrix movie look sky day period appear like domed roof planetarium release first matrix movie 1999 provide synchronistic perfect visual representation mind go long time come gnostic nag hammadi text year later correlation astounding read gnostic account 1,600 year early clear describe simulation phenomenon tell yaldabaoth demiurge archons create bad copy original reality rule capture illusion body prison trap consciousness bad copy fake reality read gnostics describe bad copy update current time refer today virtual reality simulation author john lamb lash say demiurge fashion heaven world copy fractal paĵern original expertise hal virtual reality simulation fractal paĵern energetic information construct reality sort blueprint paĵern copy computer term copy natural reality non natural frequency digital form principle make copy website original website exist change copy version like different original website archon reality synthetic copy prime reality exist frequency wall simulation trap illusion synthetic matrix human consciousness expression prime reality archons cult seek human body synthetic synthetic ai mind complete job turn entire reality synthetic include perceive natural world quote kurzweil nanobot infuse maĵer information rock tree intelligent creature yes synthetic creature covid genetically manipulate vaccine design human body synthetic perspective obvious archons cult desperate infuse synthetic

human body synthetic perspective obvious archons cult desperate infuse synthetic material human covid scam let electromagnetic light yaldabaoth force create simulation matrix make sense gnostic reference great architect use cult freemasonry deity designer matrix movie call architect trilogy jam pack symbolism relate subject contend year angry old testament god yaldabaoth god symbolically quote opening genesis create world creation prime reality creation simulation genesis god say let light light light say decade speed light 186,000 mile

second fast speed possible claim mainstream science fact frequency wall outer limit matrix fast slow possibility possible human body encode operate speed light simulation tiny frequency band visible light near death experiencer perceive reality outside body temporary death describe different form light support nag hammadi text prime reality simulation upper aeons gnostics describe realm incredible beauty bliss love harmony realm watery light powerful shadow false reality archon control gnostics lower aeons depict realm different kind light describe term chaos hell abyss outer darkness trap soul torment manipulate demon relate covid hoax watery light theme find near death account simulation light electromagnetic radiation light speed light lower aeons simulation light luminous fire associate gnostics archons bible refer yaldabaoth old serpent call devil satan deceiveth world revelation 12:9 think make simulate copy prime reality countermimicry change dramatically time manipulate humanity believe real probably meet criterion deceive world come cult god lucifer light bringer lucifer symbolic yaldabaoth bringer radiation light form bad copy simulation speed light symbolise lighted torch hold statue liberty illuminati sabbatian frankism declare lucifer true god lucifer real god freemasonry honour great grand architect universe simulation emphasise way archontic technologically- generate luminous fire radiation deluge environment kid 1950 change nature field constantly interact interaction technological radiation change smart grid design operate immense level communication power 5 g expand world 6 g 7 g process development

5 g expand world 6 g 7 g process development radiation simulation archontic manipulation system archon cult wish unleash radiation great extreme form kurzweil cloud plan synthetic human relate need cope level radiation see far biological human survive scale radiation script smart grid technological sub reality technological simulation disconnect five sense perception expanded consciousness technological prison mind infuse spirit darkness recur theme religion native culture manipulation human genetic non human force famously record biblical son god god plural original interbreed daughter man nag hammadi apocryphon john tell story way

yaldabaoth send angel archon demon daughter man raise offspring enjoyment succeed success gather plan angel change likeness likeness mate fill spirit darkness mix evil take woman beget child darkness accord likeness possession discarnate entity take human body age old theme continue today real see satanic secret society ritual create energetic environment entity aĵach initiate hear story people change personality ağer initiate low level freemasons inside freemasonic temple public open day walk stop ryde town live birmingham england group boston massachuseĵs feel energetically dark dense low vibrational sinister demonic aĵachment happen initiate idea go ritual masons bit good business far extreme ritual satanism human possession powerful design possession possible hierarchy cult dictate power perceive status possess archon way archon hierarchy cult hierarchy entity aĵache influence perception behaviour aĵache extreme energy information infuse body information field hologram start reflect nature possess entity exorcist movie type possession facial feature change know shapeshiğing islam jinn say invisible trickster change shape whisper confuse human form trait archons version phenomenon extreme possession certainty infuse spirit darkness partner sex nag hammadi text appear describe infusion change genetic energetic information human genetic information spirit darkness information mix change happen islam concept jinn baby possession mother jinn take human form way human genetic change remember archons aware advanced technique human

way human genetic change remember archons aware advanced technique human society today far know archons time fallen one version describe religion culture archons human world cult obsess genetic today know dictate information process perceive reality human life need produce human form decode simulation symbolically know adam eve leğ garden prime reality fall matrix reality simulation physical construct physical source information think wi fi simulation energetic field encode information body brain system design decode information encode wave frequency form transmiĵe brain electrical signal decode brain construct sense reality illusory physical world exist brain mind virtual reality game mimic process sensory

decoding system information feed sense decode virtual reality appear real figs 18 19

scientist believe agree perceive physical reality exist look observe act perception focus trigger decoding system turn waveform information holographic reality observe reality revert holographic state waveform state relate principle fall tree make noise hear decode concept make sense simulation perspective computer decode information wi fi field time decode bring reality screen wi fi decode focus moment figure 18 virtual reality technology hack body sense decode system figure 19 result experience real interestingly professor donald hoffman department cognitive sciences university california irvine say experienced reality like computer interface show level interact hide exist evolution shape user interface hide truth truth language space time object wrong language describe reality correct say level space time universal reality phenomenon decode simulation reality process enslave sense reality near-death experiencer report space time exist perceive free body body decode system appreciate archon cult desperate entrap human aĵention five sense matrix matrix open mind expand state awareness take information confine simulation aware knowledge insight deny awaken awaken matrix final chapter relate current event alien simulation explain call fermi paradox name aĝer italian physicist enrico fermi 1901 1954 create first nuclear reactor consider question lack extraterrestrial activity star planet apparently vast universe night sky think simulate projection control simulation aim hold humanity fast essential ignorance want form life include advanced life come go share information humanity want believe isolated apparently theme human isolation apartness common perception lifeless universe fascist isolation law covid era paradoxically existence simulation mean force construct view experience people report world century reptilians grey entity archon phenomenon nag hammadi text describe benevolent alien interaction non human group come simulation overcome archon aĵempt highlight reptilians greys obsess genetic technology relate cultural account abduct technology way overcome limitation creative potential technology drive control human society today archetypical archon- reptilian grey modus operandi technocracy

archontocracy universe big

archetypical archon- reptilian grey modus operandi technocracy archontocracy universe big appear simulation space distance information decode holographic reality space absence holographic object space field energetic information connect single apply artificially generate information field simulation universe big small physical reality decode information perceive size decide way simulation encode appear entire night sky perceive exist brain million light year star ceiling planetarium look vast distance away point mention alien highlight 1990 plan stage fake alien invasion justify centralisation global power world military nazi scientist werner von braun take america operation paperclip ağer world war help find nasa tell american assistant dr carol rosin cult agenda know die 1977 rosin say tell sequence lead total human control world government include threat terrorism rogue nation meteor asteroid finally alien invasion thing von braun say bogus refer problem reaction solution mind alien come new mantra alien come infiltrate human society look human french canadian investigative journalist serge monast say 1994 uncover nasa military operation call project blue beam fit werner von braun predict monast die heart aĵack 1996 day ağer arrest spend night prison 51 say blue beam plan stage alien invasion include religious figure beam holographically sky global manipulation usher new age worship cult god yaldabaoth world religion fake holographic asteroid say plan sync von braun stage illusory threat asteroid holographic insert preĵy straightforward give advanced technology outside public arena fact physical reality holographic information field project decode illusion physical asteroid sell global pandemic virus exist human believe government medium tell particularly relevant write pentagon plan release june 2021 information ufo sighting follow ufo story early 1990 common theme government military denial cover recently pentagon suddenly talkative apparently open air force pilot radar image release unexplained crağ move change direction speed believe possible human technology march 2021 director national intelligence john ratcliffe say pentagon

technology march 2021 director national intelligence john ratcliffe say pentagon report month later june reveal great deal information ufo sighting unknown public say report massive implication order include bizarrely $ 2.3 trillion coronavirus relief government funding bill pass trump administration end 2020 add note caution point 1990 military intelligence network long crağ flye saucer anti gravity crağ observer extraterrestrial origin keep knowledge public allow crağ flown human perceive alien visitation say alien exist streetwise president ronald reagan tell un general assembly 1987 occasionally think quickly difference worldwide vanish face alien threat outside world idea unite common enemy common purpose saviour force cult age old technique mass manipulation go global science move way find person discuss simulation hypothesis publicly conclude real nick bostrom swedish bear philosopher university oxford explore year possibility human reality computer simulation version today simulation holographic reality hypothesis increasingly enter scientific

mainstream open minded mainstream gather example american nuclear physicist silas beane lead team physicist university bonn germany pursue question live simulation conclude probably likely base lağice cube find cosmic ray align specific pağern team highlight greisen zatsepin kuzmin gzk limit refer cosmic ray particle interaction cosmic background radiation create apparent boundary cosmic ray particle paper entitle constraint universe numerical simulation pağern constraint exactly find computer simulation point simulation create law physics limit possibility make point decade perceive law physics relate reality later simulation designer write code create computer virtual reality game equivalent law physics game player interact limitation lay coding way write code simulation decide law physics apply override expand state consciousness enslave five sense awareness simulation code rule override code people miracle bypass encode limit simulation population catch simulation perception idea plight bonn paper say like prisoner pitch black cell able wall prison true people remain mesmerised five sense open expand awareness wall clear main speed light american

theoretical physicist james gates explore simulation question find considerable evidence support idea gates professor physics university maryland director center string particle theory barack obama council advisors science technology team find computer code digital datum embed fabric reality relate off electrical charge 1 0

binary system computer energetic fabric mathematical sequence know error- correct code block code reboot datum original state default seĵing knock sync gates ask find set equation embed reality indistinguishable drive search engine browser say correct rich terrile director centre evolutionary computation automated design nasa jet propulsion laboratory say publicly believe universe digital hologram create form intelligence agree way waveform information deliver electrically sense brain construct digital holographic reality world digital level reality read esoteric art numerology digital hologram cuĵing edge holographic today digital technology design access manipulate digital level perceive reality synthetic mrna covid vaccine digital component manipulate body digital reality number know reality break number code computer game max tegmark physicist massachuseĵs institute technology mit author mathematical universe lay reality entirely describe number math way video game encode physic computer game world computer virtual reality essentially tegmark imagine perception character advanced computer game graphic good know game think bump real object electromagnetic resistance reality fall love feel emotion like excitement begin study apparently physical world video game realise pixel find energetic reality case level world digital computer game character think physical stuff tegmark say actually break number exactly situation world look mathematical elementary particle like quark electron property electron smell colour texture physicist come geeky name electron property like electric charge spin lepton number electron care property number illusory reality gnostic describe simulation c g t code dna binary value c = 0 g t = 1 simulation digital body digital interact recur mathematical sequence encode reality body include fibonacci sequence previous number add 1 1 2 3 5 8 13 21 34 55 etc sequence encode human face body proportion animal dna seed head pine cone tree shell

spiral galaxy hurricane number petal flower list go fractal paĵern never- end paĵern infinitely complex self similar scale principle hologram

never- end paĵern infinitely complex self similar scale principle hologram famous recur geometrical mathematical sequence phi pi golden mean golden ratio golden section computer code simulation laugh head shake day finishe book go production stage send article scientific american publish april 2021 headline confirmed live simulation decade ağer first say reality simulation speed light outer limit article suggest live simulation speed light outer limit leğ school 15 pass major exam life writer eye qualification explain final chapter knowing far beĵ think come different source article rightly connect speed light processing speed matrix say book time simulation appear space abstract property wriĵen code real live simulation create david icke say manipulate alien cracker reality humanity think real illusion politician government scientist doctor academic law enforcement medium school university curriculum found world exist simulate prison cell stretch accept covid exist entire physical reality exist reveal knowledge keep rap cult network compartmentalise secrecy control humanity sense reality induce population believe reality real tragic experiential consequence thing hysterically funny new renegade minds ancient greek philosopher plato 428 347bc major influence gnostic belief describe human plight thousand year ago allegory cave tell symbolic story prisoner live cave outside chain wall cave fire figure walk past fire cast shadow prisoner wall move shadow sense reality prisoner begin study shadow consider expert today academic scientist study illusion today academic scientist prisoner escape cave see reality return report revelation believe call mad threaten kill try set free plato tale brilliant analogy human plight illusory reality describe dynamic covid hoax skim surface subject aim book crisply connect essential dot happen today true context subject area connection chapter cover great evidential detail need know tell answer bewildered people forest tree humanity forest twig five sense twig renegade minds forest forest answer lie connection reveal break free perceptual programming forest see

answer lie connection reveal break free perceptual programming forest see way turn break free humanity get mess situation hopeless promise perceptual heartbeat paradise life simply vacation infinite enegade mind weave web life event common theme apparently random look pursuit aid incredible synchronicity come mind open mesmerise think infinite awareness infinite possibility infinite possibility access infinitely possible state apparently obvious devastatingly- powerful fact set free point aĵention infinity consciousness question infinity choose access knowledge insight awareness wisdom want connect explore focus five sense influence fraction infinite awareness mean range tiny give new meaning infinitesimal limitation self identity sense possible limit accordingly range consciousness think life think dream dreamer dreamer dream buddhist philosophy put way thing view appear human live realm touch taste hear smell limit sense possible sense self follow religion speak god heaven life dominate five sense perception action five sense arbiter happen smear infinity seal away influence rigid unyielding reality bubble five sense human phantom self archon cult methodology isolate consciousness five sense reality simulation program consciousness sense self world deluge life long information design instil desire perception allow global control effort increase dramatically identity politic identity bubble squeeze minutia five sense detail disconnect people profoundly infinite sense focus self identity like firewall limit access infinite realm perceive radio television station literally moment imagine vast array station give different information angle reality listen human plight population overwhelmingly confine cultfm relate frequency range cultfm limit perception insight band limit possibility band mean connect imperceptibly minuscule range possibility creative potential infinite field world apart synchronicity rare synchronicity define dictionary happening chance related similar event time use chance betray complete misunderstanding reality synchronicity chance people open mind awaken use term notice coincidence life bit luck apparently miraculous happening right place right time right people day pepper fancy meet chance entire life live

right people day pepper fancy meet chance entire life live like colossal awakening 1990 91 transform sense reality synchronicity chance access expand realm possibility allow expand potential manifestation people broadcast vibe openness mind tend draw chance frequency magnetism people 30 year incredible synchronicity lead cult maze information form crucial personal experience coincidence allow puzzle piece enormous array subject situation breach bubble five- sense reality know exactly mean escape perceptual prison cell open choice appear super human compare limitation human natural state human currently experience consciousness unnatural state induce separation infinity come transformation unity describe detail force hold humanity servitude deny access infinite self wetiko factor talk write decade way five sense mind systematically barricade expand awareness analogy computer five sense mind keyboard expand awareness interaction computer operator symbolic interaction five sense mind expand awareness computer directly experience internet operator experience internet computer suppose work archon seek control point operator connect computer stop interaction fig 20 operator bang keyboard click mouse computer respond happen computer take possess appropriately name computer virus operator lose influence computer go way make decision control virus describe dynamic force know gnostics yaldabaoth archons disconnect five sense mind expand awareness imprison humanity perceptual figure 20 mind virus write decade seek isolate sense mind computer true image neil hague year ago come native american concept wetiko describe precisely phenomenon wetiko spelling cree version include wintiko windigo tribal group spell low case wetiko proper noun archons prefer capital first see article wetiko writer researcher paul levy sync write computer operator disconnection later archons read book fascinating dispel wetiko break spell evil parallel conclude long native american concept wetiko clear obvious funny wetiko gnostic archons sure jinn predators force evil inversion chaos wetiko native american force divide computer operator fig 21 indigenous author jack d. forbes founder native american movement

21 indigenous author jack d. forbes founder native american movement 1960s write book

wetiko entitle columbus cannibals wetiko disease exploitation imperialism terrorism read forbes say wetiko refer evil person spirit terrorize creature mean terrible act include cannibalism zulu shaman credo mutwa tell african account tell cannibalism bring world chitauri god manifestation wetiko distinction evil person spirit relate archons wetiko possess human act pure consciousness wetiko say sickness soul spirit state take give cult operative perfectly describe black hawk

native american war leader defend land confiscation say european invader poison heart wetiko heart spread native society mention heart significant shall shortly forbes write tragically history world past 2,000 year great story epidemiology wetiko disease yes long forbes correct say wetiko destroy egypt babylon athens rome tenochtitlan capital aztec empire destroy entire earth evil say number export wetiko culture globalisation covid constant war mass murder suffering kind child abuse satanism torture human sacrifice expression wetiko wetiko possess world wetiko manifest way figure 21 mind virus know native americans wetiko image neil hague cult wetiko wetiko yaldabaoth frequency distortion seek aĵach human consciousness absorb connection wetiko drive perception target believe come mind horror history today mass killer satanist paedophile like jeffrey epstein psychopath embodiment wetiko express state grotesqueness cult wetiko incarnate yaldabaoth incarnate seek facilitate wetiko assimilation humanity totality distortion manipulate population low frequency state match paul levy write holographically enforce psyche human wetiko virus pervade underlie entire field consciousness potentially manifest moment mindful covid hoax achieve people fall wetiko frequency lair player covid human catastrophe include gates schwab tedros fauci whiĵy vallance johnson hancock ferguson drosten rest include psychopath psychologist expression wetiko compassion empathy emotional consequence people support psychopath authority pushbackers despite damaging impact psychopath life family life look wetiko possession prevent see lie obvious scam go wetiko will let perceptual divide chasm wetikoed non wetikoed paul levy describe wetiko way long describe archontic force distorted consciousness

operate dimension reality subtle body wetiko locate dimension space time literally exist dimension able affect ordinary life mysteriously interpenetrate three- dimensional world wetiko incarnate representative cult weave field level reality electromagnetic information field simulation matrix simulation wetiko yaldabaoth caleb scharf director astrobiology columbia university speculate alien life advanced transcribe quantum realm physics say intelligence indistinguishable fabric universe solve great mystery hyper advanced life

intelligence indistinguishable fabric universe solve great mystery hyper advanced life external embed perceive physics root behaviour particle field phenomenon complexity emergence word life equation equation emphasis scharf say possible recognise advanced life form integral unsuspicious consider natural world agree wetiko yaldabaoth simulation literally body beast mean control power overcome wetiko influence cult know doubt sleep know suggest work field fierce electromagnetic light matrix speed light watery light field wall matrix connect great infinity sense mind decode system body aĵach field matrix light experience reality sense mind see matrix field information expanded consciousness infinity field open mind importantly heart infinity field mission control give expand perspective road map understand nature five sense world isolate five sense mind mission control try understand world constantly feed information ensure understand people state feel lost bewildered direction radar clearly influenced fields big infinity liĵle five sense mind simply view behaviour regard covid hoax division know human history mass people individual intuit wall simulation plato prisoner break cave see reality people target wetiko archon possess authority burn stake demonise mad bad dangerous cult today global network anti hate anti fascist woke group expression wetiko aĵacke expose conspiracy covid lie vaccine agenda woke wetiko explain black white mentality wetiko possess cult paul levy say paradigm thrall value logic thing true false wetikoized mind wetiko consciousness permanent rage woke woke inversion contradiction anti fascist act like fascist fascist anti- fascist wetiko work political party act claim different reason secret society satanic ritual aĵache initiate wetiko cold ruthless psychopathic

mentality secure position power world wetiko reframe training programme cumulative effect aĵache wetiko graduate describe automaton robot cold psychopathic uncaring demeanour trait wetiko possession look time describe book regard personnel covid include police medical profession climb greasy pole profession wetiko society require trait wetiko particularly true politics fair competition pre

society require trait wetiko particularly true politics fair competition pre eminence idea found back stab arsis lick culminate global covid coordination wetiko possess pull off different country trace empathy compassion impact human sight sense holographic form field connect holographic form perceive physical object space fact space energy consciousness operate multiple frequency wetiko connect cult psychopath submit psychopath serve psychopath medium operation world wetiko gates wetiko mask wear submissive wetiko fake journalist fact checker wetiko field coordinate thing psychopath gofer medium operative anti hate hate group fact checker submissive people work unit human coordination aĵache field organise fig 22 paul levy describe wetiko possess people draw refuse let information breach rigid perception write long covid think recognise follower covid religion oh little bit people channel vibratory frequency wetiko align psychic resonance reinforce unspoken share agreement uphold deranged view reality unconscious content take possession certain individual irresistibly draw mutual attraction knit group tie share madness easily swell avalanche insanity psychic epidemic closed system insular open new information inform influence outside world contradict fixed limited limiting perspective woke mind covid mind compatible resonance draw awakening clearly figure 22 wetiko field cult pyramid personnel manifest image neil hague wetiko care human human possess human end effect depend scale possession extreme psychopathy unquestioning obedience wetiko bad nightmare human consciousness expand simulation focusse stop happen control information perception frequency education system medium science medicine academia gear maintain humanity five sense servitude constant stimulation low vibrational mental emotional state covid wetiko seek dominate

subconscious space five sense perception expand consciousness computer meet operator subconscious hiding place wetiko speak trigger urge desire manipulate low vibrational psychopathic state remember islam describe jinn invisible trickster whisper confuse wetiko origin trickster god theme find culture world jinn like archons

wetiko terrifie human awaken reconnecte

true self energy source go feedback loop break wetiko human perception provide energetic momentum existence depend force evil human target source survival operate low vibrational state fear hate depression background anxiety people suffer wetiko target key survival need way round paul vampire intrinsic independent substantial existence right exist relation pathogenic vampiric mind parasite call wetiko able exist virtual reality potentially destroy specie fact vampire reflect mirror mean need thing fact wetiko expression inside mean cure wetiko critical issue find cure put effect evil beget evil evil constantly expand find new source energetic sustenance evil distortion die assimilation balance harmony love garlic wetiko vampire evil absence love exist presence love think way emphasise time decade archons wetiko cult powerful care look call liĵle boy short trouser effect say true wetiko insatiable desire power sign omnipotence insecurity paul levy write primal fear ultimately drive drive cultivate wetiko body politic intrinsic insistent need centralise power control create imagine safety yeeeeeees exactly wetiko want human ongoing state fear wetiko fear petrifie love evil absence love love absence fear love conquer especially wetiko fear wetiko bring fear world fear fall fall low frequency ignorance illusion fear false emotion appear real simulation drive energise fear wetiko yaldabaoth fear simulation fear absence love wetiko absence view current event level perspective covid hoax generate momentous amount ongoing fear anxiety depression despair empower wetiko wonder people like gates instigator wetiko incarnate exhibit trait wetiko extreme cold unemotional people like gates crony dead eye wetiko sabbatians wetiko control include world health organization big pharma vaccine maker

national health hierarchy corporate medium silicon valley banking system united nations plan transformation world government control possess wetiko distortion distort human society image knowledge gateway understand world division race culture creed sexuality diversion hide real division possess influence wetiko covid hoax bring clearly view

real division possess influence wetiko covid hoax bring clearly view human behaviour race tyrant dictatorship come colour creed unite president bomb innocent african tribe commiĵe genocide rwanda unite wetiko war wetiko genocide wetiko hunger century world plenty wetiko child go bed hungry include west wetiko cult generate woke racial division focus body design obscure reality division behaviour manifestation mind body obsession body identity group judgement means divert aĵention real source behaviour mind perception conflict sow woke target group wetiko provide lunch agent division chaos fear feed cult seek assimilate entirety humanity child young people wetiko frequency manipulate state fear despair witness suicide psychological unravelling spring 2020 wetiko psychopath want impose state unquestioning obedience authority conduit wetiko enforce assimilate humanity need believe resistance futile fear resistance game change non cooperation imposition use violent resistance benefit violent imposition violent resistance wetiko power love power sweep wetiko world wetiko cult know want know bring ai artificial intelligence wetikos want know ai know computer code algorithm ai learn datum input diversion expeditionary force real ai want connect human brain promote silicon valley wetikos like kurzweil ai frequency wetiko frequency archons connection ai human brain connection wetiko frequency create wetiko hive mind complete job assimilation hive mind plan control israel china 100 percent own wetiko sabbatians assimilation process go minute minute

smart era fuse covid era tell social media scramble mind young change personality true social media look deeply work create division conflict hostility cruelty targeting people destroy wetiko social medium manipulate tune people wetiko frequency emotional exploitation trick

employ platform like facebook wetiko man zuckerberg facebook instagram announce new platform child overcome legal bar main site wetiko exploitation manipulation kid amnesty international liken plan fox offere guard henhouse say incompatible human right wetiko zuckerberg repeat care brin page google wojcicki youtube bezos amazon hell run twiĵer act channel wetiko develop technology reason human control design sell technology kill people big pharma drug vaccine producer know end devastate life thought people consider wetiko human life wetiko frequency change change change perception change behaviour gates go bear think exactly want way go frequency frequency lair say long time big addiction smartphone device frequency come off entrap mind people spend age phone minute ağer pick repeat covid lockdown increase addiction million time obvious reason addiction alcohol overindulgence drug way wetiko entrap consciousness aĵach symptom low- vibrational psychological distress alcoholism drug addiction compound think coincidence access easy potion people realm simulation ban illegal explore smartphone addiction book scale mind blow level addiction come help tech company phone wetiko qualm destroy mind child see company wetiko perceptual combination psychopathic enforcer weak meek unquestioning compliance rank file global smart grid wetiko grid crucial complete cult endgame simulation radiation deluge technological radiation devastating scale wetiko fraud like elon musk serve cult interest occasionally criticise maintain street cred 5 g form wi fi direct earth space volume scale go increase day elon musk officially spacex starlink project process puĵe ten thousand satellite low orbit cover inch planet 5 g wi fi create kurzweil global cloud human mind plan aĵache soon spacex approval operate 12,000 satellite 1,300 launch time

aĵache soon spacex approval operate 12,000 satellite 1,300 launch time writing application file 30,000 operator wi fi 5 g low orbit satellite market include oneweb uk telesat canada ast science musk tell ai end humanity launch company call neuralink connect human brain computer musk theory tesla company build electric car driverless vehicle smart control grid fraud bullshiĵer elon musk opinion major league 5 g technological radiation general

destructive human health genetics psychology increase strength artificial radiation underpin five sense perceptual bubble expression radiation electromagnetism freedom activist john whitehead right databit databit build electronic concentration camp smart grid 5 g means control human mind infuse perceptual information field influence sync frequency change perception behaviour en masse manipulate population level frequency happen today arrogance musk fellow cult operative know bound way gates musk satellite number change night sky view earth astronomy community complain see consequence musk wetiko hubris include radiation visible pollution night sky interference astronomy meteorology ground water pollution intensive use increasingly spaceport accumulate space debris continual deorbiting burning age satellite pollute atmosphere toxic dust smoke ever- increase likelihood collision collective public open leĵer complaint musk say write spacex process surround earth network thousand satellite purpose irradiate square inch earth spacex like treat radiation mitochondria cell depend electron move undisturbed food digest oxygen breathe nervous system heart subject radio frequency interference like piece electronic equipment cancer diabetes heart disease afflict majority earth population metabolic disease result interference cellular machinery insect bird animal eat starve death result people like musk gates believe limitless wetiko arrogance like world consequence humanity irrelevant absolutely time stop take shit self- style master earth consider go cult anti human hear question oğen affect ah forget body vehicle wetiko consciousness break foundation look state severely distorted consciousness target state consciousness assimilation rest detail simulation fly trap unique sensation

state consciousness assimilation rest detail simulation fly trap unique sensation five sense create cycle addiction call reincarnation renegade minds happen reality small version picture line holographic principle addiction radiation smart technology small version addiction simulation connect body brain ai take addiction giant step total ongoing control assimilate human incarnate consciousness wetiko watch covid hoax profoundly aĵached wetiko

perceptual calling card aggressive response point view god psychopathic lack compassion empathy servile submission narrative authority wetiko psychopath subservience psychopath cult wetiko anti human human embark mission destroy human target mean human survive human covid end means end cult wetiko consciousness seek change earth system include atmosphere suit human gather bombardment 5 g ground space dramatically change field five sense interact come sit hand hope away mean away mean extreme need face carbon dioxide gas life human kaput go history natural world human cult create cock bull story carbon dioxide climate change justify reduction point gates ignoramus biden climate chief john kerry want suck atmosphere kerry want master gates wetikos gas life demon usual support wokers extinction rebellion similar organisation bewildered puppet child greta thunberg world stage klaus schwab world economic forum extinction rebellion ironic wetiko inversion gas need survive reduce save extinction basic need human oxygen billion walk face nappy deprive body brain essential requirement human existence 5 g 60 gigahertz interact oxygen molecule reduce oxygen body absorb bloodstream obvious knock consequence respiratory cognitive problem life need explanation psychopath like musk assemble global system satellite deluge human atmosphere insanity man jail basic human need oxygen carbon dioxide dismantle water food geĵe similar treatment united nations agendas 21 2030

great reset plan centrally control water food supply people rain water fall land food affecte basic level reduce carbon dioxide genetic modification gmo infiltrate food chain mass scale pesticide herbicide pollute air destroy soil freshwater fish provide livelihood 60 million people feed hundred million worldwide push brink accord conservationist climate change focus gates schwab want dispense current food source replace synthetic version wetiko cult control term production eat totalitarian tiptoe 60 year food processed chemical shite point today natural food dr tom cowan say label eat bill gates big owner farmland united states ulterior motive involve cult klaus schwab write feed world 50 year need produce food produce 10,000 year food security achieve regulation genetically modifie food adapt reflect reality gene editing

offer precise efficient safe method improve crop liar people world target aluminium vaccine chemtrail food drink can endless source aluminium link health issue include dementia increase year ağer year insect bee wildlife essential food chain delete pesticide herbicide radiation 5 g dramatically increase 6 g 7 g come pollinate bee population devastate wildlife include bird dolphin whale have natural radar block effect increase radiation summer windscreen splaĵere insect numerous happen go cult introduce genetically modified version tree plant insect include gates fund project unleash hundred million genetically modifie lab alter patent male mosquito mate wild mosquito induce genetic flaw cause die clinically insane gates fund japanese researcher develop mosquito spread vaccine dub flye vaccinator gates fund modification weather paĵern sell myth cause carbon dioxide fund geoengineering sky change atmosphere come light gates back plan release tonne chalk atmosphere deflect sun cool planet funny heating effect sun factor climate projection focusse carbon dioxide reason want reduce carbon dioxide mention sun time want reduce impact sun essential human life health mention sun cholesterol vitamin d connection demonise sun warning skin

mention sun cholesterol vitamin d connection demonise sun warning skin cancer cause chemical sun cream tell splash come end process statin drug reduce cholesterol turn sunlight vitamin d. lack vitamin d lead long list health effect vitamin d level fall people confine home covid gates fund form geoengineering importantly chemtrail drop heavy metal aluminium self replicate nanotechnology earth kill natural world need know tell detailed background human system target deletion force human wetiko cult embark process transform human body biological synthetic biological explain biological replace artificial synthetic archontic countermimicry right human society plan eventually dispense human body altogether absorb human consciousness cyberspace simulation wetiko yaldabaoth preparation happen people care look alternative medium rightly warn globalism globalist far big represent end human race know bad copy prime reality gnostics describe bad copy harmony wonder beauty start wetiko yaldabaoth set change simulate copy different process slow start entrap human

simulation timeline technologically aware bring intellectual speed suppress spiritually point reach stage technological intellect potential destroy event move fast central american shaman don juan matus say think moment tell explain contradiction intelligence man engineer stupidity system belief stupidity contradictory behaviour sorcerer believe predator give system belief idea good evil social more one set dream success failure give covetousness greed cowardice predator make complacent routinary egomaniacal order obedient meek weak predator engage stupendous manoeuvre stupendous course point view fight strategist horrendous manoeuvre point suffer give mind predator mind baroque contradictory morose fill fear discover predator wetiko archons yaldabaoth jinn version phenomenon culture religion world theme true real reach point deal question fight walk away think use controversial subheading thing move term response global fascism mean fight mean walk away get fight walk away depend mean fight walk away fighting mean physical combat play wetiko game fall trap want angry aggressive direct hate hostility enemy

game fall trap want angry aggressive direct hate hostility enemy think fight war baĵle conflict fight wetiko lead side wetiko want fight place hit son hit wetiko hit wetiko wetiko hit wetiko return forthright expose wetikos cult hate refuse hate want hate fight woker anti hater anti fascist prove time reach keyboard don balaclava walk away mean disengage wetiko include cease cooperate tyranny paul levy say wetiko way defeat evil try destroy play evil game lose find invulnerable place evil unable vanquish truly win battle evil wetiko human society steroid covid hoax shouting match wear mask wetiko wear mask wetiko wear electrical circuit push resist push resist wetiko push resist polarity wetiko empower dictionary definition resist include oppose refuse accept comply word focus oppose form seĵe police car alight refuse accept comply wetiko oppose wetiko point way forward difference aggressively demand government fascism obey stand stark contrast great majority pushbackers see clearly march thousand pushbackers lockdown london follow day later woker hijacke protest bristol police car set fire mask virtually absent london widespread bristol wetiko want lockdown level society

infuse aggression police unknowing stooge lockdown protester one smile face hug blatantly obvious state geĵe obvious day result wokers like influence simulation field wetiko pushbackers influence field far high vibration simulation wetiko invade heart lockdown opponent come heart allow lie truth way highlight renegade minds know calmness place wisdom come will find wisdom hissing fit wisdom need abundance right calmness weakness scream voice strong wetiko possess influence know deal wetiko want fight need cooperation mass rally marche great visual representation feeling end irrelevant demand wetikos act differently go wetikos need waste time demand happen difference need delete mean allow happen invariably cooperation demand child stop fire peashooter dog refuse buy peashooter provide mean cooperate dog smack nose pea authority enforce mask

provide mean cooperate dog smack nose pea authority enforce mask wearing million country refuse 74 million pushbackers vote trump 2020 refuse wear mask close business stay home unenforceable control compliance dynamic covid regulation roman empire know people find intimidating authority stand crowd face display hope clear book go far intimidating stand say cooperate enslavement child consequence initially question address go happen time strong unyieldingly mean refuse wear mask obey nonsense comply tyranny repeat fascism impose fascist fascism impose population acquiesce fascism die first body live meekly fascism form death death spirit martin luther king describe make thing happen despair till far fat lady refuse sing long covid hoax drag impact life see awakening phenomenal number people worldwide realisation believe life world research publish system serve university bristol king college london february 2021 conclude 11 people britain trust david icke

coronavirus pandemic gather number build urgently progress see scam cease cooperate prominent german lawyer reiner fuellmich licence practice law america psychopath justice second nuremberg tribunal crime humanity fuellmich impressive record beat elite court form german corona investigative commiĵee pursue civil charge main perpetrator view trigger

criminal charge importantly grasp foundation hoax pcr test test virus christian drosten charge sheet gates frontman tedros world health organization major player allow inflict horror human race bring book life sentence follow bill gates rest group researcher indict government norway crime humanity copy send police international criminal court lawsuit cite participation internationally plan false pandemic violation international law human right european commission definition human right coercive rule nuremberg hague rule fundamental human right norwegian constitution initiative hereon complain protest react practical way support vital mass non cooperation organise number lockdown marche london spring 2021 mass non cooperation authority stop people hundred thousand walk london street centre road mile ağer mile face nappies look determined calm histrionic lot smile police impotent organise group shopping mask mutual support imagine happen police impossible store refuse serve people circumstance face long line trolley good stand return shelf cope keep happen talk move complain pro active watch thing happen make thing happen include relationship police behaviour face nappy disgraceful think find concentration camp guard enlightened modern era myth bust big time period seĵing change wetikos watch film footage

london march police thug viciously kick protestor floor fellow face nappies stand ring protect criminal assault crowd far outnumber police long allow happen unchallenged people chant shame circumstance long shame crowd need start make citizen arrest police commit criminal offence brutally aĵack innocent people defenceless woman citizen arrest section 24a uk police criminal evidence pace act 1984 find similar country prefer common law arrest citizen reason come shortly arrest person commiĵe indictable offence reasonable ground suspect commiĵe indictable offence count aĵack police thug fall category citizen arrest stop cause physical injury person suffering physical injury cause loss damage property make off constable assume responsibility citizen arrest prevent breach peace common law believe breach peace happen relate harm likely presence way think common law version police know crowd member public long stand watch commit thuggery crime think twice act like brownshirts blackshirts common

law common sense mention common law important people think law law law case body law common law statute law common law found simple premise harm recognise victimless crime harm statute law statute law statute law amazingly law sea bring ashore cult override law land common law right impose people common law apply harm stitch fine detail people life instead take law sea admiralty law apply population statute law refer law spew government agency include fascist law regulation relate covid key point statute law contract law apply contract corporation police officer know keep dark long ago merchant sailing ship begin trade different country contractual law develop call admiralty law name apply contract agree corporate entity agree contract law sea jurisdiction apply new alias statute law problem cult law sea bring ashore obvious people corporation government entity overcome laĵer government associate organisation corporation institution private corporation mean government agency local council police court military state lot dun bradstreet corporate listing

council police court military state lot dun bradstreet corporate listing website confirmation corporation arrest private corporation call police private security guard court private corporation jurisdiction consent contract hear mantra law enforcement police consent people truth people consent theory monumental trickery okay cult overcome corporate law problem make government institution corporate entity people corporation ah sense sense people exactly illusion people cult create corporation time birth certificate issue note birth/ berth certificate court law sea land stand dock throwback origin common law david vaughan icke corporation create government bear call mr david vaughan icke usually wriĵen capital mr david vaughan icke live breathe man fictitious corporate entity trick think david vaughan icke mr david vaughan icke thing police charge court prosecute corporate entity live breathe man woman trick identify corporate entity contract jurisdiction language know legalese lawful legal lawful relate common law legal relate statute law legalese language statue law use term mean thing public legalese notice police officer tell charge end understand public mean comprehend legalese mean stand stand authority yes question unknowingly agree jurisdiction

contract corporate entity confidence trick way contract agree inform party know david

vaughan icke agree corporation mr david vaughan icke knowingly agree contract deceive way

ask proof identity usually driving licence document accept corporate entity refer person citizen

identify corporate fiction common law point citizen arrest approach police officer identify

immediately live breathe man woman consent contract understand stand authority common

law birth certificate live man available charge commonlawcourt.com business register statute

law system mean law apply way run business common law remember covid law regulation

statute law law contract contract mean kill away common law say harm apply physical harm

financial harm etc police employee private corporation need new system non- corporate

common law constable operate outside statute law system davidicke.com common law search

constable operate outside statute law system davidicke.com common law search engine find

video explain common law great detail definitely road walk heart hear people spiritual war like

term war wetiko dynamic know mean sweep aside bodily form situation state consciousness

seek different reality wetiko want upheaval chaos fear suffering conflict control want love

peace harmony fairness freedom fall idea wetiko all- powerful wetiko powerful joke pathetic

choice handful time year feel presence frequency allow aĵach briefly consciously observe

nature experience pleasant energy heavy dark ease kick door show real power persuade

power con wetiko con trickster power control unleash con found manipulate humanity power

wetiko recycle present illusion power power give away happen energetic level play world see

humanity give power wetiko authority use power control population power power population

hand way billion control relative experience people possess wetiko kick arse open heart oh yes

heart transform world perceive receiver transmiĵer processor information information

information process perception main area brain heart belly relate thinking knowing emotion

wetiko want head belly people mean think confine matrix simulation low vibrational emotional

reaction scramble balance perception minute social media emotion dominant force woke

emotion thought free fact free heart different know head think try work know human energy

field seven prime vortex connect wide reality fig 23 chakra mean wheel light sanskrit language ancient india main one crown chakra head brow eye chakra centre forehead throat chakra heart chakra centre chest solar plexus chakra sternum sacral chakra beneath navel base chakra boĵom spine particular function function feel anxiety nervousness belly sacral chakra locate process emotion affect colon people shit shit scared nervous chakra play important role mr mrs big heart chakra sit centre seven chakra connect physical connect high realm heart chakra feel love empathy compassion heart go closed heart literally heart aĵitude

love empathy compassion heart go closed heart literally heart aĵitude behaviour bill gates native americans portray wetiko paul levy call frigid icy heart devoid mercy bill gates figure 23 chakra system interpenetrate

human energy field heart chakra governor wetiko tremble thought heart energy infiltrate frequency high seek instead close heart chakra vortex block perceptual energetic influence psychopath heart stone emotionally- damage people heartache break heart astonishing heart disease relate heart chakra disruption fundamental connection physical heart dr tom cowan wriĵen outstanding book challenge belief heart pump make connection physical spiritual heart rudolph steiner way ahead time say fallacy heart pump heart pump crazy right everybody know read cowan human heart cosmic heart realise idea heart pump ridiculous evidence blood foot far heart pump horizontally body heart cowan explain book real reason blood move physical heart symbolise love source heart vortex spiritual heart powerful energetic connection expand consciousness feel know intuitive knowing centre chest know come process thought lead conclusion instant heart know connection level awareness know meaning source intuition intuitive 30 year uncover global game nature reality heart constant antenna truth accuracy american intelligence insider say quote disinformer book quote true ask heart antenna answer heart- centred mean closed heart chakra withdraw close mind bubble five sense reality moment focus aĵention centre chest picture spin wheel light open

expand feel happen perception heart like joy love heart impact mind interact chakra open feel expression heart consciousness process continue insight knowing follow open heart connect level awareness know perspective fault line divide illusion control open heart process illusion race creed sexuality brief experience consciousness heart division unity figs 24 25

heart love laugh mark twain quote say human race effective weapon laughter reference heart love laugh joy know true nature infinite reality madness human society illusion mind twain say assault laughter stand true wetiko cult insecurity demand take seriously power authority acknowledge fear sort aggressive fearful insecurity desire laugh face face police come face nappy expect take seriously seriously look like laugh face intimidation laugh face tyranny reaction press buĵon wetiko know face laughter target refuse concede joy fear see example covid hoax people express energetic power string puppet wetiko retreat tail limp knee laugh world bloody mad ağer choice laughter tear know way go figure 24 head consciousness heart see division apart figure 25 heart consciousness see vaccine soul foundation wetiko archon control human separation incarnate five sense mind infinite close heart chakra true live human life goal achieve complete separation case interested read account french energetic healer say experience patient give covid vaccine genuine energy healer sense information consciousness field different level refer subtle body describe treat patient later return ağer have healer knowledge dose covid vaccine healer say notice immediately change heavy energy emanate subtle body scary thing work heart chakra connect soul detach physical body contact float state total confusion damage consciousness lose contact physical body i.e. biological machine long communication continue treatment send light heart chakra soul person soul long receive light frequency energy powerful experience understand substance detach consciousness consciousness long interact body possess life long contact frequency light energetic balance mind create human rudderless extreme zombie like operate fractional state consciousness mercy wetiko especially intrigue healer say light prediction highly inform rudolf steiner year ago

say future eliminate soul medicine pretext healthy point view vaccine human body treat soon possible directly birth human develop thought existence soul spirit materialistic doctor entrust task remove soul humanity today people vaccinate disease disease future child vaccinate substance produce precisely way people thank vaccination immune subject madness spiritual life extremely smart develop conscience true goal materialistic circle steiner say vaccine detach physical body etheric body subtle body etheric body detach relationship universe etheric body extremely unstable man automaton say physical body man polish earth spiritual vaccine kind arymanique wetiko force man long rid give materialistic feeling human say materialistic constitution long rise spiritual write year dna receiver transmiĵer information connect level reality vaccine change dna liken change antenna transmit receive disconnection clearly lead change personality perception steiner predict arrival ai big pharma covid vaccine maker expression wetiko test dna manipulate evil child write view give vaccine baby soul body disconnector child disconnect soul birth vaccine create close system spiritual guidance great self play ambition wetiko pentagon video 2005 leak presentation explain development vaccine change behaviour effect brain believe happen covid genetically modify procedure masquerade vaccine urgent appointment naivety anonymous klaus schwab write 2018 neurotechnologie enable well influence consciousness thought understand activity brain include decode think fine level detail new chemical intervention influence brain correct error enhance functionality plan clear heart stop heart open mind awaken wetiko weaken heart love far powerful head hate like majority need turn phantom heart prime target wetiko answer wetiko heart heart infinite

heart heart true self live human life firewall five sense illusion imposter take place phantom self heart wait patiently set free time choose phantom wetiko wetikoed phantom self wreak mass death destruction love forever lock away heart time unleash power let sweep away fear despair wetiko heart consciousness seek manipulate censor advantage belief religion activism

desire expression treat right freedom opinion heart demand fairness unity heart come mutual support transform wetikoed world reality mean place love joy happiness fairness justice freedom wetiko agenda world nonsense wetiko stay heart open work hard closed fear currency food source love true sense fear love fear know eternal exploration possibility love true sense physical aĵraction pass love expression yes infinite love love condition go far deeply core core infinite realty bear love illusion simulation love infinitely express knowing swiğly pass experience separation temporary hallucination disconnect oneness perceive withdraw influence important perception trickery mind parasite wetiko foundation potential manipulation open heart open sluice gate mind redefine self identity amazing thing start happen consciousness expand contract accordance self identity true self recognise infinite awareness label self phantom self see series brief experience life transform consciousness expand extent self identity expand change unity division picture pixel play long game experience fleeting moment eternity forever suddenly people uniform dark suit long intimidating consequence action nature brief experience pass blink infinite eye intimidation mind mind open heart consider consequence know right heart power option renegade mind renegade heart consideration consequence provide getaway car mind heart want right light face today stop cooperate wetiko form fear compromise compromise tyranny tyranny demand life perception destiny change perception change life change collective perception change world come people human family heart goal seĵle big scare story book go press indian variant world deluge propaganda covid catastrophe india mirror lie misrepresentation happen italy first

propaganda covid catastrophe india mirror lie misrepresentation happen italy first lockdown new york post publish picture collapse street covid india april 2021 actually take gas leak 2020 old old media article

mid february ask india untouched covid vaccine rollout gather pace allege case begin rapidly

increase indian covid vaccine maker bharat biotech fund existence bill melinda gates foundation pair announce divorce 2021 pity deserve indian covid crisis ramp medium terrify world prepare people submission restriction scam work first time repeat far people see deceit davidicke.com ickonic.com seek tell true story happen talk people live indian nightmare covid post leĵer alisha pune tell different story government medium mendacity say scene die people overwhelmed hospital design hide happen genocide starvation alisha say million die starvation ongoing lockdown government medium lie make look like virus restaurant shop gym theatre basically shut city ghost town call essential business open till 11 morning basically hour buy food time inter state travel inter district travel ban cop wait major crossroad question travel outdoors fine wear mask medical community complicit genocide lie hospital turn away people genuine illness need immediate care create shortage oxygen cylinder classic cult modus operandi play country alisha say people pcr test test virus deny hospital treatment say people hit hard migrant worker rural area business employ migrant worker close job income food result million die starvation malnutrition happen prime minister narendra modi 100 percent asset cult emphasise scale pure anti- human evil deal australia ban people return home india penalty try five year jail fine £ 37,000 manufacture covid crisis india prepare justify fascism west obvious connection see indian vaccine programme increase case common theme seychelles capita covid vaccinate population

world go lockdown ağer surge case long ago truly evil monsanto agricultural biotechnology corporation big connection bill gates devastate indian farming genetically modifie crop human right activist gurcharan singh highlight effort indian government complete job destroy food supply hundred million covid lockdown say 415 million people boĵom disgusting caste system go poverty line struggle feed year government impose lockdown time destroy harvest deliberate policy lead mass starvation people reel suggestion government wetiko control leader capable level evil fact describe india process instigate worldwide food chain food supply target level cause world hunger control bill gates big owner farmland america reason destroy

access food aid depopulation agenda plan synthetic food fund existence gates add come hyper- inflation suicidal creation fake money response covid breakdown container ship system cocktail lead way mean cult plan crash entire system build beĵer great report world continue emerge woman suffere menstrual fertility problem ağer have fake vaccine non-'vaccinated have similar problem interact vaccinated far coincidence credible menopausal woman geĵe period have period stop stop week pass clot lining uterus breast irregularity miscarriage increase 400 percent part united states non-'vaccinated man child suffere blood clot nose bleeding ağer interaction vaccinated baby die effect breast milk vaccinated mother awake doctor small minority speculate cause non-'vaccinated suffere effect vaccinated nanotechnology synthetic substance transmiĵe frequency straight chemical bioweapon transmiĵe people say kind chemical transmission possible answer foundation cult frequency fertile ground understand transmission happen american doctor carrie madej internal medicine physician osteopath practice 20 year teach medical student say aĵending different meeting agenda humanity discuss madej operate georgia dismiss possible form transmission focus frequency search explanation transmission say moderna pfizer vaccine contain nano lipid particle key component brand new technology humanity nanotechnology preĵy liĵle tiny computer bit nanobot hydrogel inside vaccine sci-fi kind substance suppress immune checkpoint cell refer early

vaccine sci-fi kind substance suppress immune checkpoint cell refer early trojan horse technique trick cell open gateway self replicate synthetic material immune system artificially suppressed body defence madej say substance serve purpose include demand ability deliver payload nano computer bit biosensor body actually ability accumulate datum body like breathing respiration thought emotion kind say technology obviously ability operate wi fi transmit receive energy message frequency impulse imagine geĵe new substance react thing 5 g smart device phone completely foreign human body launch large scale time see 5 g go school hospital plus musk satellite believe vaccine transmission people inside act like antenna

actually transmit outwardly synthetic substance produce voltage kind effect fit contention nano receiver transmiĵer design connect people smart grid break receiver transmiĵer connection expand consciousness explain french energy healer experience disconnection body soul vaccine nanobot self replicate inside body transmit synthetic frequency pick close interaction vaccinate madej speculate 5 g increase level radiation cause symptom directly interestingly say non-'vaccinated patient show improvement away vaccinated person interact remember control frequency energy mind consciously create energetic barrier bubble mind stop damage frequency penetrate field american paediatrician dr larry palevsky say vaccine vaccine design protect viral infection call massive brilliant propaganda genocide inject result want say content jab able infuse material brain heart lung kidney liver sperm female productive system genocide weapon mass destruction time american college ban student aĵende life change potentially life end vaccine class action lawsuit follow consequence college fascism come light book go press come report fertility effect sperm vaccinate man absolutely fit say hospital continue fill vaccine reaction question transmission blood transfusion nhs extend blood donation restriction seven day ağer covid vaccination 28 day ağer sore arm reaction say spring 2020 tout covid vaccine ongoing year like flu jab year later pfizer ceo appalling albert bourla

like flu jab year later pfizer ceo appalling albert bourla say people likely need booster dose vaccine 12 month geĵing fully vaccinate yearly shot variant play key role say confirme point johnson johnson ceo alex gorsky take time vaccine disaster people need vaccinate covid-19 year uk health secretary psychopath maĵ hancock say additional booster available autumn 2021 trap vaccine passport public accept vaccine introduce include fake variant cease valid way case continuous testing test test virus swab constantly push noise brain time vaccine change behaviour mention body book believe gather behaviour change vaccinated hear comment non-'vaccinated describe behaviour change friend love one work colleague increase self replicate synthetic material nanoparticle expand body brain article guardian 2016 detail

research university virginia charloĵesville develop new method control brain circuit associate complex animal behaviour method dub magnetogenetics involve genetically engineer protein call ferritin store release iron create magnetise substance magneto activate specific group nerve cell distance claim advance method brain activity manipulation know optogenetic chemogenetic cult develop method brain control long time ferritin technique say non- invasive able activate neuron rapidly reversibly word human thought perception article say early study reveal nerve cell protein activate heat mechanical pressure genetically engineer sensitive radio wave magnetic field aĵache iron store protein call ferritin inorganic paramagnetic particle sensitive radio wave magnetic field mean like 5 g 6 g 7 g human ai smart grid hive mind talk guardian article say researcher inject magneto striatum freely behave mouse deep brain structure contain dopamine produce neuron involve reward motivation place animal apparatus split magnetised non magnetised mouse express magneto spend far time magnetised area mouse activation protein cause striatal neuron express release dopamine mice find area rewarding show magneto remotely control firing neuron deep brain control complex mistake basic methodology covid vaccine cocktail magnetic change brain function electromagnetic

basic methodology covid vaccine cocktail magnetic change brain function electromagnetic field frequency activation pentagon develop covid vaccine ferritin magnetic explain change behaviour video appear internet write show magnet stick skin point vaccine shot people vaccine possible term brain function illness blame covid-19 variant magnetic field manipulation explain non-'vaccinated report symptom vaccinated interact symptom report decrease company interestingly magneto mutant character marvel comic x men story ability manipulate magnetic field believe mutant fight human oppressor means necessary character bear erik lehnsherr jewish family germany european court

human rights open door mandatory covid-19 vaccine continent rule czech republic dispute

childhood immunisation legally enforce vaccination necessary democratic society 17 judge decide compulsory vaccination breach human right law face judgement inverted gasp air have vaccine infuse body human right ah say human right law specifically wriĵen delete human right behest state cult article 8 european convention human rights relate right private life crucial word shall interference public authority exercise right accordance law necessary democratic society interest national security public safety economic wellbeing country prevention disorder crime protection health moral protection right freedom emphasis interference accordance law mean human right eu government decide behest necessary democratic society explain reference judgement interest national security public safety economic country prevention disorder crime protection health moral protection right freedom give eu coach horse ride human right scaĵer direction judiciary check balance government extremism vehicle enforce judgement laughably predictable thing cult want decision go mandatory vaccination judge rule benefit system vaccination dispute come invariably deliver favour doctor authority represent view state own judiciary oh yes call stop puĵe covid-19 death certificate 28 day positive test claim practice make vaccine appear work laugh scale madness inhumanity thing come highlight vaccinate covid refuse evacuation caribbean island st vincent massive volcanic eruption cruise ship take resident safety island allow vaccinate board rest leğ fate life death situation like covid strip people basic human instinct insanity extreme think fake vaccine'-makers claim body manipulate concoction stop infection transmission virus exist st vincent prime minister ralph gonsalves say chief medical officer identify person vaccinate ship note power chief medical officer like whiĵy uk answer world health organization cult network structure override politician follow science adviser tell gonsalves say resident vaccinate ağer order board ship refuse entry possible effect wooziness head good news woozy head qualify prime minister st european judgement

good news woozy head qualify prime minister st european judgement point justify move enforce covid dna manipulate procedure sandra ro ceo global blockchain business council tell

world economic forum event hope vaccine passport help drive forced consent standardisation global digital identity scheme hope desire global demand sort vaccine passport people travel work drive force consent standardisation frankly cooperation world lady bright thoroughly mendacious use term forced consent consent force submit describe plan enforce digital identity human function vaccine passport open door far end goal digital identity allow track cyberspace technique cult own china enforce social credit system total control ultimate passport plan microchip book warn nearly 30 year nice people pentagon work cult control defense advanced research projects agency darpa claim april 2021 develop microchip insert skin detect asymptomatic covid-19 infection outbreak revolutionary filter remove virus blood aĵached dialysis machine problem virus exist people transmiĵe virus symptom brain numb bullshit course ruse people microchippe different reason darpa say produce stop vaccine virus variant sinister organisation insane wetiko possess insane researcher salk institute california announce create embryo human monkey book go 1990s expose experiment secret underground facility united states human cross animal non human extraterrestrial specie ease long develop capability public arena come give deal psychiatric basket case talk elon musk scientist neuralink train monkey play pong puzzle computer screen joystick monkey correct metal tube squirt banana smoothie mouth basic technique train human unquestioning compliance neuralink chip monkey skull 2,000 wire fan brain eventually monkey play video game purely brain wave psychopathic narcissist musk

say breakthrough step puĵe neuralink chip human skull merge mind artificial intelligence exactly man dark cult dna world economic fascism wef world economic forum tell plan statement event cult own fascist youtube ceo susan wojcicki speak 2021 wef global technology governance summit 40 government 150 company meet ensure responsible design deployment emerge technology orwellian translation ensure design deployment long plan technology advance cult agenda control censorship freedom- destroyer nuremberg bind wojcicki express support tech platform like censor content technically legal harmful decide

harmful harmful cult want people legislation propose uk government censor content basis harm maĵer information fair legal provably true especially fair legal provably true wojcicki call global coalition form enforce content moderation standard automate censorship woman mega censor self- delude shamelessly accept free expression award wojcicki event sponsor youtube shame self awareness know covid scam wojcicki cult operative youtube censor medical scientific opinion purely ground support oppose cult covid narrative florida governor ron desantis compile expert panel professor medicine harvard oxford stanford universities speak force child vaccinate people wear mask say proof lockdown reduce spread death rate covid-19 cult- gofer wojcicki youtube delete panel video include content contradict consensus local global health authority efficacy mask prevent spread covid-19 consensus refer cult tell world health organization tell local health authority wojcicki know course panellist point censorship scientific debate responsible death cause wojcicki care dare tell disgrace humanity want uk government seek pass fascist online safety bill specifically target massive fine mean non censored video social medium platform censor lawful harmful content like cult own facebook twiĵer google youtube lawful harmful decide fascist blair create ofcom wef obsession cyber aĵack financial system clearly cult plan bank account theirs think money cult agenda maĵer get big lesson come continue ignore stare face world economic forum fund gates front klaus schwab announce

face world economic forum fund gates front klaus schwab announce run simulation russian government global bank aĵack call cyber polygon 2021 simulate covid event 201 plan instigate wef involve project cult own carnegie endowment international peace call wef carnegie cyber policy initiative seek merge wall street bank regulator love intelligence agency prevent arrange allow cyber aĵack bring global financial system long plan control wef carnegie operation carnegie endowment international peace send instruction world war president woodrow wilson let war end society irreversibly transform wuhan lab diversion close cult control authority lapdog medium systematically push virus release wuhan lab narrative

version happen accident happen purpose nonsense perceive existence show exist virus vital sell impression actually infective agent deal allow endless potential terrify population variant virus exist authority time writing go accident alternative medium promote purpose cable news host tucker carlson

question aspect lockdown vaccine compulsion buy wuhan lab story agree say question system medium suddenly agree medium move unit narrative lie witness hour hour mendacity covid era cult own combination unleash lie like machine gun fire suddenly agree tell truth alternative medium buy lie fit conspiracy narrative wrong conspiracy real conspiracy virus cult desperate hide idea virus release accident ludicrous covid hoax clearly long plan wait play fast accordance rockefeller document event 201 prepare detail decade sit strum finger wait accidental release bio lab crazy purpose claim want circulate deadly virus hide fact release street high level bio lab china repeat release far lab stop association place connection certain need scam case death pay hospital diagnose covid-19 real virus mass death wuhan deadly pathogen recovery normal life ağer initial propaganda dramatic speed deadly pathogen circulate china body street technique tell want hear likely believe alternative medium conspiracy carlson fit china danger narrative year china danger global cult operation centre reason wuhan lab story potential instigate conflict china stage plan trigger problem reaction solution confrontation west question especially medium agree common party line wave fourth wave fifth wave book go production world set lockdown wave support invent variant

increase time continue public statement computer program reality india new italy covid propaganda campaign tell frightened new indian strain find document produce uk government entitle summary modelling easing restriction roadmap step 2 declare wave inevitable course script fault child refuse health destroy fake covid vaccine computer model involve come cult- own imperial college warwick university trust tell date calendar factory document state model presume extremely high uptake covid vaccine allow variant document

state resurgence result people child ineligible vaccination choose receive vaccine vaccinate perfectly protect mendacity take breath away okay blame brain will dna modify shot pressure child trial underway involve child young month parent insanity bad massive pressure young fake vaccine child age consent limit systematically lower world stop parent intervene extraordinary document claim wave drive resurgence hospitalisation death dominate receive dose vaccine comprise 60 70 wave respectively predict peak wave suggest 300 death day 250 fully vaccinate people lie acquiescer need tell obvious take jab protect project sick die vaccine document go possible summer low prevalence follow substantial increase incidence follow autumn winter low prevalence late summer take indication sars cov-2 retreat population high level immunity prevent wave tell script british people believe covid restriction end summer 2021 government prepare ongoing authority award contract covid marshal police restriction contract start july 2021 go january 31st 2022 government advertise media buying services secure medium propaganda slot worth potential £ 320 million covid-19 campaign contract end march 2022 recipient list company report american medium marketing giant omnicom group inc. money object covid uk waiting list treatment include life threaten condition pass 4.5 million meantime cult seek control official inquiry block revelation happen allow need nuremberg jury trial country cover obvious appoint ultra zionist professor philip zelikow oversee dozen virologist public health official clinician government official american charitable foundation learn lesson

health official clinician government official american charitable foundation learn lesson covid debacle personnel create perpetuate covid lie zelikow executive director 9/11 commission ensure truth aĵack come produce report mendacious manipulative document wriĵen trigger detailed exposure unimaginable 9/11 story

sabbatians find passive people increasingly challenge authority amazing number people take street london ability face nappy stop instead nappy choose situation away mass crowd target

intimidate seek promote impression violent protestor incident happen london hyde park hundred thousand walk street protest covid fascism ignore cult own bbc rest mainstream medium delight report police injure clash protestor truth group people gather hyde park end march go home peacefully have good time music chat face nappy deal march crowd wade baton get bargain instead stand criminal brutality crowd numerical superiority push face nappies park eventually nappies turn run unfortunately idiot crowd throw drink can strike officer give medium government image want discredit 99.9999 percent peaceful idiot walk straight trap aware potential agent provocateur authority discredit target response crowd people apart turning point public long stand innocent arrest brutally aĵacke face nappies mean violent thing need leave violence face nappies government mean face nappies use violence peaceful people numerical superiority employ stop citizen arrest common law arrest breach peace time passive face fascism need count freedom leğ child grandchild face ongoing fascist nightmare come people time final thought power love force clean soul flame burn desire love tongue fire purge soul love goal protect hooded claw vampire door chip undying death defy love envy hurt let beautiful sparkling love flower pearl preĵy girl love like energy rushin rushin inside time sublime lover entwine divine divine love danger love pleasure love pure treasure love purge soul love goal power love force clean soul power love force sky scrape dove flame burn desire love tongue fire purge soul love goal frankie go hollywood cowan kaufman morell statement virus isolation isolation action isolate fact condition isolate stand separation thing person oxford english dictionary controversy sars cov-2 virus isolate purified continue definition common sense law logic dictate

virus isolate purified continue definition common sense law logic dictate science unbiased person come conclusion sars cov-2 virus isolate purifie result confirmation virus existence find logical common sense scientific consequence fact structure composition show exist know include presence structure function hypothetical spike protein genetic sequence find variant show exist impossible demonstrate sars cov-2 cause disease concise term possible proper way

isolate characterize demonstrate new virus take sample blood sputum secretion people e.g. 500 symptom unique specific characterize illness mix sample tissue product contain genetic material virologist macerate filter ultracentrifuge i.e. purify specimen common virology technique decade isolate bacteriophages1 call giant virus virology lab allow virologist demonstrate electron microscopy thousand identically sized shape particle particle isolate purified identical particle check uniformity physical and/or microscopic technique purity determine particle characterize include examine structure morphology chemical composition particle genetic makeup characterize extract genetic material directly purified particle genetic sequencing technique sanger sequencing decade analysis confirm uniform particle exogenous outside origin virus conceptualize normal breakdown product dead die tissues.2

2020 know virologist way determine particle see virus normal break- product dead die tissues.)3 isolation characterization analysis bacteriophage haloalkaline lake elmenteita kenyajuliah khayeli akhwale et al plos publish april 25 2019 extracellular vesicle derive apoptotic cell essential link death regeneration maojiao li1 et al frontiers cell developmental biology 2020 october 2 role extraellular vesicle ally hiv hcv sars viruses flavia giannessi et al virus 2020 come far fully isolate characterize genetically sequence exogenous virus particle causally relate disease carry expose group healthy subject animal usually isolate purified virus manner disease think transmiĵe animal sick disease confirme clinical autopsy finding show virus actually cause disease demonstrate infectivity transmission infectious agent step aĵempte sars cov-2 virus step successfully perform call pathogenic virus research indicate single study show step exist medical literature instead 1954 virologist take unpurified sample relatively people oğen similar disease minimally process sample inoculate unpurified sample tissue culture contain usually type material contain identical genetic material call virus tissue culture starve poison naturally disintegrate type particle contain genetic material common sense logic use english language scientific integrity process call virus isolation brew contain fragment genetic material source subject genetic analysis create computer- simulation

process allege sequence allege virus call silico genome time actual virus confirme electron microscopy time genome extract sequence actual virus scientific fraud observation

unpurified specimen inoculate tissue culture toxic antibiotic bovine fetal tissue amniotic fluid tissue destroy kidney tissue inoculate give evidence virus existence pathogenicity scientific fraud give paper suggest sars cov-2 virus isolate check method section researcher vero cell culture method know process isolation hear following excuse actual isolation 1 virus particle find sample patient analyze 2 virus intracellular parasite find outside cell manner people evidence think virus dangerous person person tell emerge cell infect possible find finally question virology technique conclusion distraction divisive issue shine light truth essential stop terrible fraud humanity confront know virus isolate sequence show cause illness virus imaginary wear mask social distance puĵe world finally pathogenic virus exist go injectable device erroneously call vaccine purpose scientific question urgent relevant time correct sars cov2 virus exist sally fallon morell ma dr. thomas cowan md dr. andrew kaufman md alinsky saul rules radicals vintage 1989 antelman rabbi marvin eliminate opiate zahavia 1974 bastardi joe climate chronicles relentless thunder press 2018 cowan tom human heart cosmic heart chelsea green publishing 2016 cowan tom fallon morell sally contagion myth skyhorse publishing 2020 forbes jack d columbus cannibals wetiko disease exploitation imperialism terrorism seven stories press 2008 originally publish 1979 gates bill avoid climate disaster solution breakthrough need allen lane 2021 huxley aldous brave new world chaĵo windus 1932 köhnlein dr claus engelbrecht torsten virus mania emu vertag lahnstein 2020 lanza robert berman bob biocentrism benbella books 2010

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velikovsky immanuel worlds collision paradigma 2009 wilton robert days romanovs blurb 2018 first publish 1920 blame abuse ref1 child ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 conspiracy theory ref1 domestic abuse ref1 ref2 economic abuse dependency ref1 physical abuse ref1 psychological abuse ref1 sign abuse ref1 substance abuse ref1 ref2 technology ref1 ref2 ref3 adelson sheldon ref1 ref2 ref3 agenda 21 agenda 2030 un ref1 ref2 ref3 ref4 causal link hiv aids ref1 ref2 testing ref1 ref2 trial run covid-19 ref1 ref2 alien extraterrestrial ref1 ref2 amazon ref1 ref2 ref3 amplification cycle ref1 ref2 anaphylactic shock ref1 ref2 ref3 ref4 animal ref1 ref2 ref3 antibody ref1 ref2 ref3 ref4 ref5 antifa ref1 ref2 ref3 ref4 antigen ref1 ref2 anti semitism ref1 ref2 ref3 archons ref1 ref2 consciousness ref1 ref2 ref3 energy ref1 ref2 ref3 genetic manipulation ref1 ref2 inversion ref1 ref2 ref3 religion ref1 ref2 technology ref1 ref2 ref3 wetiko factor ref1 ref2 ref3 ref4 artificial intelligence ai ref1 army robot ref1 ref2 human 2.0 ref1 ref2 morgellons fibres ref1 ref2 smart grid ref1 wetiko factor ref1 asymptomatic covid-19 ref1 ref2 ref3 aviation industry ref1 banking finance money ref1 ref2 ref3 2008 crisis ref1 ref2 boom bust ref1 cashless digital money system ref1 central bank ref1 digital currency ref1 fractional reserve lending ref1 great reset ref1 guarantee income ref1 ref2 ref3 human 2.0 ref1 income destruction ref1 ref2 cent ref1 ref2 bbc ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 becker phelps leslie ref1 behavioural insights team bit nudge unit ref1 ref2 ref3 behavioural scientist psychologist advice ref1 ref2 bezos jeff ref1 ref2 ref3 ref4 biden hunter ref1 biden joe ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 ref11 ref12 ref13 ref14 ref15 ref16 ref17 health professional ref1 ref2 immunity prosecution ref1 vaccine ref1 ref2

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ref2 religion ref1 ref2 simulation thesis ref1 wetiko factor ref1 ref2 conspiracy theorist ref1 ref2 ref3 ref4 ref5 contradictory rule ref1 corman drosten test ref1 ref2 ref3 ref4 countermimicry ref1 ref2 ref3 covid-19 vaccine vaccine covidiot ref1 ref2 cowan tom ref1 ref2 ref3 ref4 crime humanity ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 darpa defense advanced research projects agency ref1 care home ref1 certificate ref1 ref2 ref3 ref4 mortality rate ref1 record ref1 ref2 ref3 ref4 ref5 ref6 ref7 vaccine ref1 ref2 ref3 ref4 ref5 pyramid deceit ref1 ref2 sequence deceit ref1 decoding ref1 ref2 ref3 dehumanisation ref1 ref2 ref3 delphi technique ref1 dependency ref1 ref2 ref3 ref4 ref5 descartes rené ref1 vaccine ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 dnr resuscitate domestic abuse ref1 ref2 downgrading covid-19 ref1 drosten christian ref1 ref2 ref3 ref4 ref5 ref6 ref7 duesberg peter ref1 ref2 economic abuse ref1 edmunds john ref1 ref2 education ref1 ref2 ref3 ref4 electromagnetic spectrum ref1 ref2 enders john ref1 archons ref1 ref2 ref3 child young people ref1 frequency ref1 ref2 ref3 ref4 human energy field ref1 source humans energy ref1 ref2 epstein jeffrey ref1 ref2 eternal ref1

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ref2 ref3 nazi germany ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 near death experience ref1 ref2 neocon ref1 ref2 ref3 neuro linguistic programming nlp delphi technique nhs national health service amplification cycle ref1 common purpose ref1 ref2 mind control ref1 nhs england ref1 save nhs ref1 ref2 vaccine ref1 ref2 ref3 ref4 ref5 whistle blower ref1 ref2 ref3 problem reaction solution ref1 ref2 ref3 ref4 non human dimension global cult ref1 number reality ref1 nuremberg codes ref1 ref2 ref3 nuremberg like tribunal proposal ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 ref11 ref12 obama barack ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 o'brien cathy ref1 ref2 ref3 ref4 ochel evita ref1 ofcom ref1 ref2 ref3 old people ref1 ref2 ref3 ref4 ref5 oneness ref1 ref2 ref3 open society foundations soros ref1 ref2 ref3 oxygen 406 528–34 paedophilia ref1 ref2 page larry ref1 ref2 ref3 ref4 ref5 ref6 ref7 palestine israel

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cowan kaufman morell statement virus isolation think oh rench bear philosopher mathematician scientist rené descartes famous statement latin 17th century translate english think face true thought reflect perception perception lead behaviour self identity sense thinking route perception clearly shall source perception regard humanity rarely case thinking far means perception thought village idiot compare expression consciousness potential access tap true expression consciousness infinite nature forgoĵen point manipulate esoteric musing navel foundation human control oppression control perception perception hijacke behaviour dictate perception collective perception collective behaviour collective behaviour human society perception human control know perception target 24/7 psychopathic manipulator global cult know dictate perception dictate behaviour collectively dictate nature human society aware perception form information receive control circulation information vast extent direct human behaviour censorship information opinion globally nazi- like recent year blatantly illusory virus pandemic trigger china 2019 world 2020 billion submiĵe house arrest accept fascistic society way believe possible control information spew government mainstream medium silicon valley control global cult network tell danger deadly virus submiĵe house arrest concede basic freedom family protect monumental provable lie perception billion behaviour billion word structure modus operandi human control fear perception false emotion appear real fear currency control short ball impression heart mind follow grip dangly bit freeze rear end comprehensively fear world number 1 world appear world prime difference knowledge mass human society population maintain coldly- calculate ignorance control information education indoctrination system need control enslave billion perceptual delusion perceive thought opinion repeat mantra system download life education medium science medicine politic academia personnel advocate overwhelmingly perceptual product repetition teacher academic general process programming machine unlike great majority leave education program grip student continue grip programmer subsequent generation student program programmer program programmer largely say scientist doctor politician american writer

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say difficult man understand salary depend understand career income depend think way system demand bar free- minded exception concede mind perceptual mainframe postage stamp consensus tiny band perceive knowledge possibility teach download school university pound mainstream medium government policy found try think especially speak act outside box consensus career mainstream bully harass intimidate ridicule population compliance simple structure enslave humanity perceptual prison cell entire lifetime deeply process shortly humanity teach fact program belief american science fiction author frank herbert right say belief manipulate knowledge dangerous covid age belief promote knowledge censor extreme today world number 2 day world number 2 global network secret society semi secret group dictate direction society government corporation authority kind spend 30 year uncover expose network global cult know agenda book accurate predict current past event secret society secret reason want hoard knowledge choose initiate hide population seek ignorance control subdue foundation division world 1 world 2 knowledge number 1 know number 2 knowledge work hard secret include agenda enslave humanity centrally control global dictatorship b nature reality life laĵer b suppress allow prevail shall explain way cult manipulate interact population liken spider web spider sit centre shadow impose web strand represent world number 2 secret society satanic semi secret group world number 1 world see government agency government law enforcement corporation banking system medium conglomerate silicon valley fig 1 overleaf spider web connect coordinate organisation pursue global outcome population see individual entity work randomly independently level web government banking system corporation medium silicon valley world health organization work inner core unit apparently unconnected country corporation institution organisation people team pursue global outcome strand web immediately spider secretive exclusive secret society membership emphatically restrict cult inner circle emerge generation particular bloodline reason come core core single room people dictate direction human society transformation covid hoax mean

room people dictate direction human society transformation covid hoax mean web expand spider meet secret society people aware freemasons knights templar knights malta opus dei inner sanctum jesuit order like note connect church rome reason roman church establish revamp rebranding relocate church babylon cult impose global tyranny today track babylon sumer figure 1 global web control image neil hague inner level web operate unseen away public eye cusp organisation locate point hidden meet seen include series satellite organisation answer secret society found london late 19th century call round table royal institute international affairs uk found 1920 council foreign relations 1921 bilderberg group worldwide 1954 trilateral commission worldwide 1972 club rome worldwide 1968 create exploit environmental concern justify centralisation global power save planet club rome instigate human cause climate change hoax lead green new deal demand centralisation control cusp organisation include endless think tank world design coordinate single global policy political business leader intelligence personnel medium organisation influence direction policy sphere operation major player regular aĵender know happen come keep overwhelmingly dark big picture refer cusp grouping semi secret publicly identifie go inner core keep house member participant fiercely impose system compartmentalisation let know need know serve interest structure secret society serve perfect example principle freemasons high boĵom level degree degree knowledge 33 official degree scoĵish rite initiate qualify high compartment degree level choose allow knowledge carefully assign consider safe go local freemason lodge year ago have open day cuddly chaĵe astonish liĵle rank file know ubiquitous symbol use mushroom technique dark feed bullshit apply people web population sub division web mirror theme structure transnational corporation headquarters world dictate subsidiary different country subsidiary operate methodology branding centrally dictate plan policy pursuit particular end cult web function way country web subsidiary global consist network secret society semi secret group bloodline family job

consist network secret society semi secret group bloodline family job impose spider global web particular country subsidiary network control manipulate national political system finance corporation medium medicine etc ensure follow globally dictate cult agenda network mean covid hoax play country respond way yessir pyramid compartmentalisation key understand tiny dictate life billion combine sequence imposition acquiescence inner core cult sit peak pyramidal hierarchy human society fig 2 overleaf impose agenda world level immediately acquiesce imposition level impose cult level acquiesce impose level quickly meet level hierarchy idea cult sequence imposition acquiescence continue pyramid high beĵer alfred lord tennyson say cannon fodder level poem charge light brigade their reason theirs die line say valley death ride die obey question perceive superior tell way population capitulate covid hierarchical pyramid function like allow direct enormous eventually imposition acquiescence imposition acquiescence come mass population foot pyramid acquiesce level hierarchy impose government law enforcement doctor medium circuit complete population handful super- psychopath cult inner core pyramid circuit break refusal obey sequence imposition acquiescence allow staggeringly people impose entirety humankind look sequence subjugate billion start 2020 freedom take humanity give away fascist impose fascism fascism impose population acquiesce fascism way allow perception program extent lead population give freedom away give perception mind away circuit break humanity cease cooperate enslavement change happen people critically think lie window dressing summon backbone act cult spend day work stop happen methodology systematic highly detailed overcome book figure 2 simple sequence imposition compliance allow handful people peak pyramid dictate life billion life program okay world number 1 world masse observe process life perceptual download cradle grave cult create global structure perception program program continually top appear constant confirmation program true reality important word appear structure fly trap postage stamp consensus perceptual mainframe represent incredibly narrow band perceive possibility deliver education system mainstream

represent incredibly narrow band perceive possibility deliver education system mainstream

medium science medicine early age download begin parent succumb programming child

parent malevolence opposite believe good child program tell good year come major transition

parental programming full- blown state cult programming school college university

perceptually program teacher academic pass programming generation teacher resist soon

marginalise career end child resist call problem child ritalin need prescribe year ağer enter

world child control authority figure represent state tell leave speak eat toilet calculate

preparation lifetime obey authority form reflex action fear authority instill authority start child

soon learn carrot stick consequence obey defy authority underpin daily rest life fortunately

daydream crap obey authority simply tell approach allege beĵer continue day consequence

pursue open minded freedom world closed minded conformity spend lot time school corridor

ağer eject classroom take seriously spend lot time eject facebook youtube twiĵer tell true

compromise self respect far exhilarating bow authority authority sake sheep shepherd

authority sheep dog fear obey authority perceptual download continue formative year school

college university script read teacher academic scientist doctor journalist insist ongoing

generation programmed accept program pass exam confirm degree programming tragic

think parent pressure offspring work hard school download program qualify stage college

university late great american comedian george carlin say bumper sticker like proud parent

child resist teacher aĵempt break spirit bend corporate master good luck finde george come

moment leave formal programming year academia enter adult world work meet choose

prescribe arena go postage stamp consensus program overwhelming agreement basic

foundation postage stamp reality rejection contempt mind prepared use major effect firstly

consensus confirm program download thing mean know right secondly arrogance ignorance

postage stamp adherent ensure question program unpleasant consequence seek truth pick

perception shelf mark thing believe question dangerous lunatic conspiracy theorist

government agency corporation found postage

question dangerous lunatic conspiracy theorist government agency corporation found postage stamp prison cell people believe thing call opinion fusion government corporation pursuit agenda definition fascism describe italian dictator benito mussolini pressure conform perceptual norm download lifetime incessant infiltrate society right family group censor condemner black sheep ironically sheep see explosion covid era cult own global medium unleash propaganda day day support postage stamp target abuse ridicule public eye will bend mind tyranny response deny certainly case want platform expose official lie cult own create internet giant like facebook google youtube twiĵer delete have unapproved opinion facebook boast ai censor delete 97 percent hate speech report hate speech simply opinion facebook master want people perceptual oppression widely know fascism facebook executive benny thomas ceo global planning lead say comment secretly record investigative journalism operation project veritas facebook powerful break mean king history ruler billion people mark zuckerberg 36 36 year old power billion people think wrong thomas say facebook own platform like instagram oculus whatsapp need separate company power way cult like executive cult organisation benny thomas know cult compartmentalisation thomas say facebook google long company country actually powerful country basis control information control perception control human society love oppressor expression psychological trickery realise pressure compliance eventually convince believe official narrative protect self respect accept truth succumb meek subservient compliance people vehement defender system scream abuse prefer think capitulation conformity talk dangerous nonsense covidiot try convince potent form stockholm syndrome define psychological condition occur victim abuse identifie aĵache bond positively abuser example hostage bond fall love kidnapper syndrome observe domestic violence abuse child concentration camp inmate prisoner war satanic cult trait stockholm syndrome list positive regard perpetrator abuse captor failure cooperate police government authority come hold perpetrator abuse kidnapping accountable case covid cooperate police enforce defend captor demand liĵle effort escape

covid cooperate police enforce defend captor demand liĵle effort escape covid belief goodness perpetrator kidnapper appeasement captor manipulative strategy maintain safety victim reward abuse life appease behaviour reinforce covid learn helplessness akin beat em join em victim fail escape abuse captivity start give soon realize easy acquiesce power captor covid feeling pity abuser believe actually victim victim crusade mission save protect abuser venom unleash challenge official covid narrative unwillingness learn detach perpetrator heal essence victim tend loyal abuser definitely covid ponder trait compare behaviour great swathe global population defend government authority spend minute destroy life livelihood child grandchild early 2020 fascistic lockdown house arrest employment deletion protect deadly virus abuser perceptually create bring outcome look mass stockholm syndrome agree concede freedom believe perception originate independent mind fact concede reality stockholm syndrome definition concede independence mind listen opinion acquiesce masse covid era gush forth repetition official version deliver unprocessed unfiltered unquestioned programming dynamic work way free tell think mean chapter theme think oh great majority think let repeat authority tell believe allow control weave mentality fear conspiracy theorist right explain oğen hysterical abuse ensue dare contest official narrative denial mechanism hide want true tell people want hear easy infinitely great challenge tell happen akin push open door meet vehement resistance maĵer scale evidence want true convince example denial partner cheat despite sign reflex action rejection idea world event country ağer country act exactly way centrally coordinate accept laĵer accept force unspeakable evil work destroy life life child horrific achieve end heck want true face reality end duly achieve consequence far bad ongoing break wall denial today courage stand tyranny connect dot crucial aspect perceptual programming portray world random connect randomness coordinate nature perceive event random idea connect wave away ranting tinfoil hat brigade plan coordinate random idiot hide coldly calculate long

hat brigade plan coordinate random idiot hide coldly calculate long plan illusion randomness

foundation manifestation renegade mind scan reality paĵern connect apparently random turn pixel dot picture way work 30 year look similarity people modus operandi desire outcome slowly quick picture form instance connection covid pandemic hoax human cause global warming hoax mask appropriately face seek outcome push global warming myth club rome cult agency drive lie covid bill gates obvious endless people involve clearly connect oh common theme personnel match common goal solution problem centralisation global power impose save humanity covid save planet existential threat need zero covid zero carbon emission turn connect dot globalisation coin describe centralisation global power area life incessant political corporate expansion trading block superstate like european union want control centralise power decision making centralise power power centre power centralise power centre centralise quick momentum centralisation get fast fast exactly process witness way hoaxed pandemic fakery human cause global warming serve interest globalisation seizure global power hand cult inner circle covid climate change globalisation point random dot clear obvious picture paĵern klaus schwab classic bond villain found cult gates fund world economic forum publish book 2020 great reset problem covid justify total transformation human society save humanity climate change schwab say pandemic represent rare narrow window opportunity reflect reimagine reset world mention cult serve hoax book answer cult reimagine world know precisely want destroy human society covid build beĵer grand design job imagine humanity imagine agree plan believe random pure coincidence great reset long cult code global imposition fascism replace previous code name new world order cult frontman like father george bush new order ages emerge freemasonry old secret society new order ages appear reverse great seal united states novus ordo seclorum underneath cult symbol way pyramid see eye fig 3 pyramid hierarchy human control

way pyramid see eye fig 3 pyramid hierarchy human control head illuminate eye symbolise force cult expose later chapter term annuit coeptis translate favour undertaking tell christian god explain figure 3 see eye cult god freemason design great seal united states dollar bill have

major cult technique perceptual manipulation relate call 1990 problem reaction- solution prs totalitarian tiptoe tt uncover inquire mind simple question benefit answer usually identifie perpetrator give action happen concept benefit crime likely commiĵe latin cue bono benefits widely aĵribute roman orator statesman marcus tullius cicero

wonder go far concept relevant human behaviour history record problem reaction solution technique manipulate day covertly create problem illusion offere solution problem illusion first phase create problem blame happen relate financial collapse terrorist aĵack war global warming pandemic fact allow impose solution change society way desire time problem real prs manipulation perception need population believe problem real human cause global warming covid pandemic perceive real population accept solution authority refer technique problem reaction solution billion meekly accept house arrest early 2020 real deadly covid pandemic perceive believe case antidote problem- reaction solution ask benefit propose solution invariably want justify control deletion freedom centralisation power world war problem reaction solutions transform realign global society manipulate cult detail book mid-1990 dramatically centralise global power especially world war lead united nations global body thank overt covert manipulation rockefeller family cult bloodline like rothschilds un stalk horse blown world government come shortly land un building stand new york donate rockefellers cult family big pharma scalpel drug medicine creation world health organization un stalwart eugenic movement fund hitler race purity expert ernst rudin human cause global warming hoax orchestrate club rome un manufacture problem intergovernmental panel climate change impose solution agenda 21 agenda 2030 demand total centralisation global power save world climate hoax united nations perpetrate small world cult see particularly inner circle bedfellow problem reaction solution totalitarian tiptoe totalitarian sprint 2020 technique fashion hide carefully coordinate cover apparently random event start sequence know head z want people know step journey present random happening step string lead direction speed quicken dramatically recent time incremental approach tiptoe case covid new imposition take

deeply fascism tell people normal new demand add one go population freedom delete disappear spider wrap web flie comprehensively new diktat highlight detail covid hoax pull off.

prime example totalitarian tiptoe cult create european union go free- trade zone centralised bureaucratic dictatorship tiptoe incremental centralisation power nation mere administrative unit cult own dark suit brussels antidote ignorance knowledge cult seek vehemently deny despite systematic censorship end renegade mind overcome vociferously seek fact maĵer impediment way method thinking perceive knowing need name date place type fact identify paĵern reveal story final chapter need know manipulation human society end time writing form book video website want breach wall program perception access knowledge require abandonment mainstream medium source information awareness own control cult promote mass perception suit cult mainstream medium lie day day function reason tell truth truth cult agenda occasionally coincide look fact insight bbc cnn virtually rest ask con perceptually program know outcome journey event random idea world take random carefully plan know outcome journey phrase long time context daily happening appear unconnected problem illusion problem trigger propose solution drive society direction outcome invariably answer yes random abracadabra clearly coordinate outcome unlock door massively expand understanding daily event summarise major aspect fine detail book new information world think live different place foundation cult agenda incessant centralisation power centralisation ultimately pursuit cult control global level describe long time plan world structure dictatorship hunger games society term obviously come movie series portray world live military protect hi tech luxury overlord population condemn abject poverty isolated sector allow interact covid lockdown travel ban hunger games pyramid structural control inner circle cult preĵy entire population boĵom control dependency survival cult structure plan protect enforce military police state fig 4 reason global lockdown fake pandemic coldly destroy independent income livelihood dependent state cult control state warn book year plan introduce guarantee income barely survivable piĵance design impose dependency employment destroy ai technology

comprehensively great speed covid scam pandemic play lockdown consequence begin delete

great speed covid scam pandemic play lockdown consequence begin delete independent income authority begin talk right cue need guarantee income great reset guaranteed income present benevolent government seek help desperate people desperate direct result action government truth payment trap exactly authority demand include mass vaccination genetic manipulation see theme australia dependent government benefit reduce parent agree child vaccinate accord insane health- destroy government dictate schedule calculated economic collapse apply government people cult want rid country creation world state country break region rule world government super state like european union country bankrupt end achieve trillion rescue package furlough payment trillion lose taxation money object spending covid include constant all- medium advertising programming medium dependent government income day reckoning come plan government spending give possible print money production taxation inflation way potential wipe monetary value case need cult steal money will worth german weimar republic nazis take okay lockdown geĵe percentage income call furlough payment have work payment dependent people have theoretical job business consider non essential order close business close lockdown ağer lockdown furlough stop eventually precisely idea figure 4 hunger games society structure long warn plan covid hoax possible real reason lockdown hunger games cult elite dependent population plan vicious military police state fusion force making long time police look like military carry weapon match pandemic scam see process accelerate fast lockdown house arrest brutally enforce carefully recruit fascist mind gormless system server police military plan merge centrally direct world army global structure head world government elect election fixes place world army plan human instead war fight primarily population robot technology control artificial intelligence warn decade military world transform ai technology global regime describe particular form fascism know technocracy decision clueless co opt politician unelected technocrat scientist engineer technologist bureaucrat cult own control silicon valley giant example technocracy far power

cult own control silicon valley giant example technocracy far power direct world event government censorship select government know call great reset

marxist

communist takeover fascism marxism different label tyranny tell live fascist germany stalinist russia difference way freedom delete life control fascist technocracy marxist technocracy equally accurate hunger games society world government structure oversee world army world central bank single world cashless currency impose microchipped population fig 5 scan different element illusory pandemic force society direction great speed leader 23 country world health organization back idea march 2021 global treaty international cooperation health emergency nation come global community peaceful cooperation extend crisis cut orwellian bullshit mean step global government plan include cashless digital money system first warn 1993 right start covid deeply corrupt tedros adhanom ghebreyesus crooked merely gofer head world health organization say possible catch virus touch cash beĵer use cashless mean claim ridiculous nonsense like covid mind trick health push aspect cult agenda result tedros lie use cash plummet cult script involve single world digital currency eventually technologically embed body china massive global centre cult watch happen know plan chinese government develop digital currency allow fine deduct immediately ai catch camera break fantastic list law money go programmable expiry date ensure accrue wealth cult figure 5 structure global control cult work long enormously advance covid illusion serfdom smart cult plan far wide extreme comprehensive conspiracy researcher appreciate come true depth deceit control chapter control cult escape wetiko world know crazy deluge sophisticated controlling technology heading smart smart television smart meter smart card smart car smart driving smart road smart pill smart patch smart watch smart skin smart border smart pavement smart street smart city smart community smart environment smart growth smart planet

smart smart technology method operation design interlock create global smart grid connect entirety human society include human mind create centrally dictate hive mind smart city code densely occupy megacitie total surveillance control ai destructive frequency communication system like

megacitie total surveillance control ai destructive frequency communication system like 5 g

roll official testing health psychological effect colossal 5g/6g/7 g system need run smart grid destructive body mind delete independent income crucial force people ai police prison end private property ownership cult elite cult great reset openly foresee global society possession rent cult literally guise government corporation aim use lockdown destroy source income mass scale people destitute unrepayable amount debt problem cult asset come forward pledge write off debt return hand property possession solution literally include people connect internet ai warn year ago come internet things iot device technology car fridge plug internet control ai come stage internet ioe plan include connection ai human brain body replace human mind centrally control ai mind instead perception manipulate control information censorship perception come direct cult ai think think ai decide think human term individual think long incredible raving lunatic cult own crazy silicon valley tell plan year explain real motivation calculated implication include google executive futurist ray kurzweil highlight year 2030 underway say thinking hybrid biological non biological thinking human able extend limitation think cloud go gateway cloud brain go gradually merge enhance view nature human transcend limitation technology vastly superior small proportion human get small small small utterly negligible sale pitch kurzweil cult own silicon valley super human real aim post human long human sense come know entire global population connect ai centrally control hive mind externally deliver perception smart grid instal impose cult world construct allow particular location location control global system prime control centre absolutely include china israel connect internet switch off manipulate energy system cut communication internet take

computer control driverless autonomous vehicle drive off road medical device switch off potential limitless give ai internet connection run human society see allow continue autonomous vehicle maker work law enforcement produce car design automatically pull detect police emergency vehicle flashe 100

car design automatically pull detect police emergency vehicle flashe 100 foot away police stop car unlock window roll automatically vehicle computer state allow end petrol vehicle speed limiter new car uk eu 2022 step lead electric computerise transport ultimately control picture far big cult global network web clear nature spider connection happening instigation dna manipulate vaccine vaccine justifie covid hoax connection unfold plan transform human body biological synthetic biological state synthetic biology fast emerge discipline mainstream science covid vaccine infuse self replicate synthetic genetic material cell cumulatively totalitarian tiptoe human 1.0

synthetic biological human 2.0 physically perceptually aĵache smart grid percent control thought perception deed humanity need wake fast bare explanation outcome plan journey happen new information covid new context add detail minutia evidence mega work answer trigger need know tell renegade mind world thing clever wise george r.r. martin simple definition difference program mind renegade mind see dot connect picture read reality accuracy require observer know plan outcome b realise connect entirety infinite reality connect nature human society expression infinite reality apply simple cause effect connection effect trigger cause effect cause effect happen isolation life reality simple choice consequence choice lead consequence like consequence different choice different consequence lead choice consequence choice consequence connected indivisible old song go control world control allow happen cause effect choice consequence control way process symbiotic relationship involve controller control take freedom away yes give humanity subject mass control humanity acquiesce control cause effect literally case way world event kind connect cult work

incessantly sell illusion random coincidental maintain essential perception dot hide picture renegade mind know constantly scan world paĵern connection absolutely pivotal understand happening world perspective clarity impossible know plan outcome identify step journey day by- day apparently random connect relation outcome long appear individual event proverbial chain event lead direction political puppet tell believe politics adversarial different party different belief engage endless tussle power truth point point today division different party rhetorical ideological rhetorical fuse speak party eject remain free thinker succumb gather intimidation wrong opinion cult new phenomenon trace thousand year book document intergenerational initiate manipulate event increase effect global power centralise ancient time cult secure control system monarchy special bloodline later demand right rule king queen simply birthright vanquish claim birthright come time people mature unfairness tyranny demand govern note word govern serve govern government define political direction control exercise

word govern serve govern government define political direction control exercise action member citizen inhabitant community society state direction affair state community etc government exercise control serve like monarchy bizarrely country like united kingdom rule monarch government officially answer monarch uk head state commonwealth country canada australia new zealand select single family unprotected sex order pinch true ouch shit demise monarchy country offere potential vacuum form free fair society arise cult base cover monarchy serve interest continue face widespread opposition replace royal dictatorship people dictatorship people hide concept democracy present far great manipulative possibility way hide coordinated tyranny illusion freedom democracy wrongly define government select population case government select population theory majority see oğen first- past post election call majority party win few vote lose party combine democracy total power party government minority vote cast sleight hand sell tyranny freedom seventy million trump support americans vote democratic party joe biden distinctly dodgy election 2020 far

acknowledge wish feeling great percentage american society cult own biden government set day destroy right voice opinion shell biden cult handler say lunacy sickness politic descend connect dot relate desire outcome world government run self appoint technocrat long elect politician operate political agent government cult time encourage public distain politician puĵe idiot incompetent theoretical power road delete idea instil public reaction say technocrat worse pathetic politician control perception renegade minds program mind ignorant plan outcome manipulation technique employ secure end knowledge learn fast people choose inform politics first sight appear difficult control central point mean look different party able oversee constituent part truth straightforward structure pyramid imposition acquiescence organisation structure way system political party open forum free expression hierarchy national spokesman british green party claim different kind politic influence power devolve tell direct experience far bad green party run hierarchy like try hide fact kid true

green party run hierarchy like try hide fact kid true political party direct policy personnel decide elevate party serve government minister yes man woman look maverick political thinker ascend greasy pole want progress party reach high office need fall line conform exception rare want run parliament congress persuade local state level party select need play game dictate hierarchy secure election wish progress great structure need conform acceptable run hierarchy peak pyramid political party perceptual gulag fact party whip appoint whip politician vote way hierarchy demand expose ridiculous idea politician elect serve people suppose represent cult operative manipulation long seize control major party chance form government new party form cult go work infiltrate direct reach level today video compilation leader party democrats republicans conservative labour green parrot cult mantra build beĵer great reset straight off cult song sheet describe transformation global society response cult instigate hoax covid pandemic human cause climate change caroline lucas green party mp know party 1980s speak support plan propose cult operative klaus schwab represent billionaire global elite real head shaker party master party system mind trick instigate change

nature dictatorship swap royalty dark suit people believe represent interest understand trick realise single force cult control party directly term major one manipulation perception ideology need manipulate green party demand transformation society climate change obsess lie essential save planet platform away serve interest believe environmentally virtuous america political structure perfect blueprint multi- party system party state republican party control step shadow group billionaire gofer know neoconservative neocons expose fine detail book drive force policy imbecilic presidency boy george bush include 9/11 trigger comprehensive demolition official story subsequent war terror war terror invasion afghanistan iraq laĵer problem reaction solution base claim cult operative include bush british prime minister tony blair saddam hussein weapon mass destruction exist war criminal bush

blair saddam hussein weapon mass destruction exist war criminal bush blair know figure 6 different people different party control system democratic party neocon group control background democons penny drop neocons democons answer master step shadow fig 6 level cult republican democrat party control people maĵer power cult power work country certainly britain conservative labour liberal democrat green party page rhetoric feeble aĵempt

appear different neocons operate time bush think tank call project new american century september 2000 publish document entitle rebuilding america defenses strategies forces resources new century demand america fight multiple simultaneous major theatre war core mission force regime- change country include iraq libya syria neocon arrange bush republican blair labour party front- invasion iraq depart democons orchestrate targeting libya syria barack obama democrat british prime minister david cameron conservative party different party different people unfold script cult seize reign party personnel policy transparently pursue agenda point fascist covid imposition conservative junta jackboot johnson britain oppose labour party fascist labour party liken democrats conservative party akin british version republicans side atlantic speak language support direction demand cult

enthusiastically similar story country ağer country centrally control oh trump come shortly political choice party system go like vote party government like time vote party b government like preĵy party control force give party chance form government rid party b like vote party like lady gentleman democracy tell wrongly term interchangeable freedom cult cult point need introduce major expression global cult know sabbatian frankism sabbatian spell sabbatean summarise publish major exposé detail background work sabbatian frankism combine name fraud pose jewish man sabbatai zevi 1626 1676 rabbi black magician occultist proclaim jewish messiah jacob frank 1726 1791

polish jew black magician occultist say reincarnation messiah zevi biblical patriarch jacob work century establish sabbatian frankist cult play major central role manipulation human society global cult origin history sabbatai zevi emphasise point response shrill voice scream anti semitism 1 sabbatian frankists jewish pose hide cult jewish façade 2 information cult come jewish source long realise society community infiltrate take interloper sabbatian frankists infiltration foundation technique sabbatian frankism official origin 17th century zevi sabbatian sect aĵracte massive following describe big messianic movement jewish history spread far africa asia promise return jews promised land israel sabbatianism judaism inversion mainstream judaism stand sinister cult feast day judaism fast day forbid judaism sabbatians encourage command include incest today call satanism member forbid marry outside sect system keep child ignorant old trust unknowingly reveal outsider system employ day global cult general sabbatian frankism enormously influence largely control zevi sabbatians suffere setback intervention sultan islamic oĵoman empire middle east republic turkey zevi locate sultan give choice prove divinity convert islam face torture death funnily zevi choose convert appear supporter disillusioned driğe away 300 family convert theory islam continue islamic smokescreen follow goal rule ritual sabbatianism know crypto jew dönmeh mean turn ironic turn instead hide fake islamic persona process appear thing calling card sabbatianism especially ağer zevi death arrival satanist jacob frank 18th century cult sabbatian frankism

plumb new depth depravity infiltration include include human sacrifice sex child sabbatians paedophilia satanism follow surprise hollywood infested child abuse satanism establish sabbatian frankists control hollywood prime vehicle global perceptual programming manipulation believe version history portray movie travesty inversion truth rabbi marvin antelman describe frankism book eliminate opiate movement complete evil jewish professor gershom scholem say frank messianic idea judaism action truly corrupt degenerate individual frightening phenomenon jewish history frank excommunicate traditional rabbi zevi frank undeterred enjoy vital

history frank excommunicate traditional rabbi zevi frank undeterred enjoy vital support house rothschild infamous banking dynasty inner core sabbatian frankists jews infiltration roman church vatican instigate frank dönmeh turn convert roman catholicism view hijacke rein power repeat modus operandi continue pose advocate religion culture country want control manipulate people position authority influence largely adviser administrator svengali appear power judaism christianity christian zionism islam religion nation sabbatian frankism span world sabbatian saudis terror network expression sabbatian frankist dönmeh islam rule family saudi arabia house saud come vile distortion islam know wahhabism violent creed follow terrorist group like al qaeda isis islamic state wahhabism hand chop head chop religion saudi arabia people constant state fear interloper house saud continue rule al qaeda islamic state lavishly fund house saud create direct sabbatian frankist network united states operate pentagon cia government general

whichever party man establishment wahhabism middle 18th century sabbatian frankist crypto jew pose islamic call muhammad ibn abd al wahhab daughter marry son muhammad bin saud establish first saudi state death 1765 support british empire bin saud successor establish modern saudi arabia league british americans 1932 allow seize control islam major shrine mecca medina dictate direction sunni islam iran major centre shiite version source public

conflict sabbatian network wahhabi extremist carry problem reaction solution terrorist aĵack al qaeda islamic state justify devastating war terror increase surveillance population terrify people compliance insight renegade mind streetwise understanding country location people aĵacke mean apparently represent country location people aĵacker oğen orchestrate aĵack societal change justifie save population terrorist great detail trigger sabbatian frankists real perpetrator 9/11 19 arab hijacker blame happen observe justifie 9/11 term middle east invasion mass surveillance control fulfille demand project new american century document publish sabbatian neocons appear enemy deep inside player sabbatian team israel arab royal dictatorship rule sabbatians recent peace agreement israel saudi arabia united arab emirates uae make formal case scene palestinians subject grotesque tyranny israel bomb terrorise existence 1948 stand chance sabbatian frankists control israel constant theme violence war sabbatians love control arab country palestinians look real support come royal family arab world saudi arabia bahrain uae etc sabbatians allegiance aim cult good arabic population steal oil financial resource people false claim royal dynasty genetic right rule employ vicious military impose satanist jacob frank form alliance 1773 sabbatians mayer amschel rothschild 1744 1812 founder rothschild banking dynasty jesuit educate fraudulent jew adam weishaupt lead formation bavarian illuminati firstly 1776 illuminati manipulate force french revolution 1789 1799 involve american revolution 1775 1783 ağer illuminati official creation weishaupt later public protestant christian archetypal sabbatian style read decode adam weis- haupt first man lead know

leader sense subordinate lead crusade transform human society continue today theme confirme early 1785 horseman courier call lanz report strike lighting extensive illuminati document find saddlebag link weishaupt detail plan world takeover current event covid fascism making long time jacob frank jail 13 year catholic inquisition ağer arrest 1760 release head frankfurt germany home city headquarters house rothschild alliance strike mayer amschel rothschild weishaupt rothschild arrange frank give title baron wealthy nobleman big

following jews germany austro hungarian empire european country believe illuminati come zohar body work jewish mystical bible call kabbalah zohar foundation sabbatian frankist belief hebrew zohar mean splendour radiance illuminate illuminati claim illuminated ones knowledge systematically hide human population pass generation carefully choose initiate global secret society network cult hidden knowledge include awareness cult agenda world nature collective reality explore later cult illumination symbolise torch hold statue liberty giğe new york french freemasons paris know exactly represent liberty symbolise goddess worship babylon queen semiramis ishtar significance clear notice ubiquitous theme inversion statue liberty symbolise mass control fig 7 mirror image statute stand island river seine paris new york liberty originate fig 8) large replica liberty flame stand pont de l'alma tunnel paris princess diana die cult ritual describe biggest secret lucifer light bringer relate lucifer central figure sabbatian frankism associate satanism sabbatians reject jewish torah pentateuch five book moses old testament know genesis exodus leviticus numbers deuteronomy claim judaism christianity dictate god moses mount sinai sabbatians apply seek replace zohar absorb judaism follower inversion expression great global inversion want delete religion force humanity worship world religion sabbatian satanism include worship earth goddess satanic theme introduce mainstream society christianity currently foremost target destruction plan follow figure 7

cult goddess babylon disguise statue liberty hold flame lucifer light bringer figure 8 liberty mirror image paris new york version originate rabbi marvin antelman connect illuminati jacobins eliminate opiate jacobins force french revolution link bund der gerechten league network inflicte communism marxism world antelman write original inner circle bund der gerechten consist bear catholics protestants jews sabbatian frankist infiltrator representative respective subdivision formulate scheme ultimate destruction faith heretical catholics lay plan feel century ultimate destruction church apostate jews ultimate destruction jewish religion sabbatian create communism connect anti religion agenda communism allow free practice

religion sabbatian bund international communist party communist league 1848 marxism bear communist manifesto sabbatian asset karl marx friedrich engels absolutely coincidence marxism different fascist centrally control tyranny impose worldwide result covid hoax marxist fascist china place hoax originate reason clear chapter covid calculated catastrophe call woke mentality hijacke traditional belief political leğ replace far- right believe social justice beĵer know marxism woke swallow perceive revolution work billionaire billionaire corporation feign woke marxism tout woker replacement capitalism capitalism cartelism market stitch cult billionaire corporation bankroll woke billionaire love marxism keep people servitude control terminally naïve wokers think change world vital surplus requirement target illuminati jacobins period know terror french revolution 1793 1794

jacobin maximillian de robespierre orwellian commiĵee public safety kill 17,000 enemy revolution friend revolution karl marx 1818 1883 sabbatian creed marxism cost life 100 million people hero woker systematically keep ignorant real history education programming result promote sabbatian marxist abomination destine point consume rabbi antelman spend decade research sabbatian plot say league contrary popular opinion karl marx originate communist manifesto pay service league know country origin germany bund der geaechteten antelman say text aĵributed marx work people marx repeat say marx hire hack lackey wealthy illuminists marx famously say religion opium people sabbatian plan demonise religion antelman call book eliminate opiate marx bear jewish family convert christianity sabbatian modus operandi support sabbatian plan destroy traditional jewishness judaism clearly see today vindictive targeting orthodox jews sabbatian government israel covid law follow religion damage world century act perceptual straightjacket renegade minds ask maĵer agree disagree happen happen question answer regard religion religion create interact community believer cult want dismantle discourse unity interaction covid lockdown ultimate goal delete religion one- world religion cult satanism worship god later gun control america gun want cult seek disarm population time law enforcement agency armed molar tyrant history seek disarm people

launch final takeover include hitler stalin pol pot mao follow confiscation violent seizing power know cult agenda people immediately race microphone exploit dead people multiple shooting ultra zionist cult lackey senator chuck schumer straight case ağer people kill boulder colorado march 2121 simple rule schumer want cult want ultra- zionist mate wild eyed senator adam schiff.

time call disarmament americans live long way police response schumer schiff rest pampered clown siĵe capitol hill razor wire security fence protect thousand armed troop addition armed bodyguard mom pop isolated home potential mass shooter sabbatian frankists importantly rothschilds creation zionism political movement demand jewish homeland israel promise sabbatai zevi symbol israel come german meaning rothschild dynasty founder mayer amschel rothschild change family bauer rothschild red shield german deference pointed star david hexagram display family home frankfurt symbol later appear flag israel ağer rothschilds centrally involved creation hexagram uniquely jewish symbol widely occult hidden network oğen symbol saturn book zionism jewishness interchangeable zionism political movement philosophy race people jews oppose zionism non jew include president joe biden zionists israel centric donald trump america support israel government preĵy gimme ultra zionist billionaire corporation provide fantastic dominant funding political party congresswoman cynthia mckinney tell approach immediately run office sign pledge israel confirm vote country good interest american politician approach way refuse support funding enormous powerful zionist lobby include organisation like mega lobby group aipac american israel public affairs commiĵee trump big funder ultra zionist casino medium billionaire sheldon adelson major funder democratic party include ultra zionist george soros ultra- zionist financial medium mogul haim saban reel suggestion soros israel-firster sabbatian control israel-firster renegade minds watch action word soros donate billion sabbatian agenda benefit spirit sabbatian inversion soros pledge $ 1 billion new university network promote liberal value tackle intolerance announcement annual speech cult own world economic forum davos switzerland

ağer harsh criticism authoritarian ruler world laugh brazen mendacity laugh mystery translate orwellian liberal value tackle intolerance mean teach non white people hate white people white people loathe bear white reason anti semitism fraud zionists support jewish homeland land palestine sabbatian rothschild goal long benefit jews sabbatians global anti semitism industry skew public political opinion equate oppose violent extreme zionism blanket aĵack condemnation jewish people sabbatians global anti semitism industry skew public political opinion equate oppose violent extreme zionism blanket aĵack condemnation jewish people sabbatian protection racket stop legitimate investigation exposure agenda activity official definition anti semitism recently expand include criticism zionism political movement stop exposure sabbatian infiltrator create zionism know today 19th century renegade minds talk subject know shit come way people decide want know truth cower corner fear sabbatians try label anti semitic 1990 uncover background agenda useless gutless fraudulent journalist repeat smear question day write section pair unquestioning repeater call ben quinn archie bland appropriate outright call anti semite establishment propaganda sheet london guardian support evidence sabbatian anti semitism industry say question dare ironically semitic refer group language middle east entirely arabic anti semitism anti arab consequence misunderstanding grave hilarious bother tell quinn bland want confuse bless em reason dub anti semitic write 1990 jewish operative sabbatians heavily involve russian revolution sabbatians overthrew romanov dynasty apparently anti- semitic oh section trigger british journalist robert wilton confirm theme 1920 book days romanovs study official document russian government identify member bolshevik ruling elite 1917 1919 central committee include 41 jews 62 member council people commissars 17 jews 22 member 458 556 important bolshevik position 1918 1919 occupy jewish people 17 russian 23 jews 36 member vicious cheka soviet secret police establish 1917 soon appear country professor robert service oxford university expert 20th century russian history

find evidence jewish leon trotsky seek sure jews enrol red army disproportionately represent soviet civil bureaucracy include cheka perform mass arrest imprisonment execution enemy people state department decimal file 861.00/5339 date november 13th 1918 name rothschild banking agent america jacob schiff list ultra zionist funder russian revolution lead claim jewish plot key point miss jews sabbatian frankists britain winston churchill error mistake write 1920 edition illustrated sunday herald russian revolution worldwide conspiracy overthrow civilisation reconstitution society basis arrested development envious malevolence impossible equality woke today create network churchill say need exaggerate play creation bolshevism actual bring russian revolution international atheistical jews atheistical jews = sabbatians churchill say certainly great probably outweigh notable exception lenin majority lead figure jews go describe knowingly sabbatian modus operandi place puppet leader nominally power control background principal inspiration drive power come jewish leader tchitcherin pure russian eclipse nominal subordinate litvinoff influence russians like bukharin lunacharski compare power trotsky zinovieff dictator red citadel petrograd krassin radek jews soviet institution predominance jews astonishing prominent principal system terrorism apply extraordinary commissions combat counter revolution take jews notable case jewesses say seriously disproportionate involvement russian revolution jewish revolutionary sabbatians provable fact truth defence sabbatian anti- semitism industry repeater parrot like quinn bland breathtaking network call woke anti hate group interlock leadership funding role discredit silence get close expose sabbatians see truth defence confirme legal judgement saskatchewan human rights commission canada decree truthful statement present manner meet definition hate speech truthful statement free restriction anti hate activist consume hatred stupid ignorant world know

far far virtue signal arsis far dark revolution game background method russian revolution straight sabbatian playbook see french revolution endless world appear start revolution

people tyrannical rule end regime change tyrannical rule overtly covertly war terror aĵack regime overthrow follow sabbatian cult history agent create problem reaction- solutions remove opposition road world domination sabbatian dot connect rothschilds illuminati jacobins french revolution bund league international communist party communist league communist manifesto karl marx friedrich engels lead rothschild fund russian revolution sequence come heading creative destruction advance global goal continually destroy status quo install new status quo destroy world war come mind new status quo close plan outcome war mass murder sabbatians collective blood sacrifice ritual obsess death reason death inversion life satanists sabbatians obsess death oğen target church churchyard ritual inversion obsess sabbatians explain use inverted symbolism include inverted pentagram inverted cross inversion cross relate target christianity cross religious symbol long christianity inversion statement sabbatian mentality goal single religion sabbatians operate germany rise occult obsess nazis subsequent jewish exodus germany europe palestine united states ağer world war rothschild dynasty forefront

political manipulator fund operation sabbatians help orchestrate horror inflicted jews nazis stalin ağer organise russian revolution sabbatians hate jews religion pose jews secure position control jewish society play anti semitism card protect exposure global network organisation answer sabbatian create control globe span intelligence network involve stunning web military intelligence operative operation tiny country million jewish asset sabbatians jewish community protect program childhood believe jew hate hostile world jewish community highly convenient cover hide true nature sabbatians geĵe close expose game accuse sabbatian place people gofer anti- semitism claim jews plot world say say sabbatians real jew hater infiltrate jewish community use cover anti semitic defence exposure anti semitism industry target researcher way jewish people think justified genuine know jewish leader institution state intelligence military control jews cultist stooge sabbatian frankism add pro- jewish freedom petition online time look go text add petition blurb aĵack anti semite scale perceptual

programming move america tell story trigger chapter call atlantic crossing particularly ağer israel establish sabbatians move united states eventually grasp control government administration political system democrats republicans intelligence community like cia national security agency nsa pentagon mass medium seriously compartmentalise network sabbatians operative mossad israeli defense forces idf agency pull off 9/11 blame 19 al qaeda hijacker dominate man connect sabbatian rule saudi arabia 19 plane let flew big passenger jet building largely incompetent pilot engine light aircrağ. hijacker hani hanjour say flown american airlines flight 77 pentagon turn manoeuvre professional pilot say struggle ban rent small plane instructor freeway airport bowie maryland week early ground incompetent pilot jewish population world 0.2 percent entirely concentrate israel 75 percent jewish united states percent percent globally 0.2 percent refer jewish people sabbatian interloper fraction fraction sobering thought think fantastic influence world affair tiny israel project new america century pnac lay blueprint september 2000

america war terror regime change war iraq libya syria found dominate sabbatians know neocons document concede plan support politically publicly major ajack american soil problem reaction solution excuse send troop war middle east sabbatian neocons say process transformation war regime change likely long absent catastrophic catalysing event like new pearl harbor month later produce document come power inane puppet george bush long-time sabbatian bush family include sabbatian dick cheney officially vice president de facto president entirety bush government month ağer bush inauguration come bush call time pearl harbor 21st century typical sabbatian timing symbolism 2001 60th anniversary ajack 1941 japanese air force pearl harbor hawaii allow president franklin delano roosevelt united states sabbatian- instigate second world war say election campaign evidence overwhelming roosevelt military intelligence network know ajack come stop sure america essential naval ship hawaii time thousand americans die pearl harbor ajack september 11th 9/11 year 2001 sabbatians widely infiltrate government military intelligence operation compartmentalise

asset pull off al qaeda aĵack read trigger blow mind uĵerly staggering concentration jewish operative sabbatian infiltrator essential position political security legal law enforcement financial business power ağer aĵack happen carry cover track mean staggering think 0.2 percent world population percent americans jewish sabbatian infiltrator fraction central foundation 9/11 conspiracy hijacking government military air force intelligence computer system real time door access possible israeli sabbatian cyber security soğware sabbatian control israel way rival silicon valley domination cyberspace dominant force cyber security give access entire computer system passcode world add zionists head officially silicon valley giant like google larry page sergey brin google- own youtube susan wojcicki facebook mark zuckerberg sheryl sandberg apple chairman arthur d. levinson ultra zionist hedge fund billionaire paul singer $ 1 billion stake twiĵer nominally head ceo pothead jack dorsey

cable news host tucker carlson say dorsey debate medical community drop ton acid permanent effect think debate end carlson comment ağer dorsey tell hearing capitol hill cut bullshit believe free speech long get decide hear big name silicon valley man woman global cult sabbatians true controller corporation wonder people company ferociously censor ban people like expose aspect cult agenda especially truth covid hoax sabbatians orchestrate jeffrey epstein paedophile ring sabbatian operation officially jewish sabbatian woman abuse ring tell high number jewish people involve epstein horror sabbatian wriĵen match perfectly modus operandi obsession sex ritual epstein run sabbatian blackmail ring famous people political influence provide young girl sex filme record hide camera microphone new york house caribbean island property epstein survivor describe surveillance system go public famous politician figure know video tend tell get ball heart mind follow sabbatians use blackmail technique wide scale world entrap politician need act demand epstein private plane infamous lolita express know passenger include bill clinton bill gates flown epstein plane meet year ağer epstein jail paedophilia subsequently meet time epstein home new york accord witness epstein infamous kick ghislaine maxwell daughter mossad agent ultra zionist mega

crooked british businessman bob maxwell time own daily mirror newspaper maxwell murder sea boat 1991 sabbatian control mossad liability business empire collapse mossad operative confirme trigger money money money funny money come sabbatian connection president lay crucial importance

sabbatians control banking finance sabbatian mayer amschel rothschild set dominate arena family quest total global control freedom effect choice choice free few choice enslave global structure create century sabbatians big decider restrictor choice money world ask people like money idea global elite multi- billionaire describe greedy true level control money primarily greed control sabbatians seize control finance suck wealth world hand population talk ağer one- percent wealthy lot few possible money scam outrageous vast rightly call scam scam found create money loan interest population money call credit sabbatians assert control government banking completely century secure financial law allow bank lend hugely deposit confidence trick know fractional reserve lending imagine lend money exist charge recipient interest mansion private jet malibu monaco bank require fraction deposit wealth vault allow lend money call credit bank loan succeed banker real wealth account type account agree loan £ 100,000 wealth exist non existent fresh- air create credit exist theory credit back wind buying power people think buying power accept return property good service describe situation like cartoon character chase run edge cliff run forward fresh air look realise happen crash ravine foundation sabbatian financial system stop people look periodic moment want crash system 2008 2020 ongoing reap reward property business wealth borrower sign collateral return loan fresh air people think money create government come existence start debt bank lend illusory money call credit yes currency exchange debt day issue interest bear loan government create money interest free lend people interest free government control sabbatians financial system control sabbatians interest free money nightmare come true sabbatians underpin financial domination global network central bank include privately own federal reserve britain bank england orchestrate privately own central bank coordination body call bank international

seĵlements basle switzerland create usual suspect include rockefellers rothschilds central bank chief answer

government people answer bank international seĵlements word global cult dominate today sabbatians constituent scam overall banking scam loan thin air credit loan theoretically bring circulation add circulation pay principle plus interest additional interest create mean loan shortfall money circulation borrow pay close money circulation repay outstanding public private debt include interest coldly weave fabric system certainty lose home business possession banking lender obvious time boom money circulation debt expand people want geĵe loan downturn come money supply contract painfully obvious money service debt interest obvious time boom money circulation debt expand people want geĵe loan downturn come money supply contract painfully obvious 2008 currently money service debt interest sabbatian bankster

lead human population calculated series boom debt incur bust debt repay bank debtor tangible wealth exchange non existent credit bust sabbatian banker absorb world tangible wealth end percent government bankruptcy level debt system own system control federal reserve america central bank privately own american president nominally appoint chairman woman maintain illusion arm government fed cartel private bank hand billion associate friend ağer crash 2008 sabbatian- control manipulate 1913 covert trickery rothschild banking agent jacob schiff paul warburg sabbatian rockefeller family jewish population percent globally 0.2 percent sabbatian interloper remember far small ultra zionist head federal reserve 31 year 1987 2018 form alan greenspan bernard bernanke janet yellen biden treasury secretary yellen deputy chairman israeli- american duel citizen ultra zionist stanley fischer governor bank israel ultra zionist fed chief span presidency ronald reagan republican father george bush republican bill clinton democrat boy george bush republican barack obama democrat add pre greenspan chairman paul adolph volcker appoint jimmy carter democrat run fed 1979 1987

carter reagan administration greenspan take volcker long time associate business partner rothschilds maĵer party officially power united states economy direct force member obama trump biden administration common theme barack obama democrat ultra zionist robert rubin larry summers timothy geithner run treasury clinton administration reappear obama ultra zionist fed chairman alan greenspan manipulate crash 2008 deregulation jump ship disaster way ultra- zionist bernard bernanke hand trillion sabbatian big fail bank business include ubiquitous ultra zionist goldman sachs

ongoing staff revolve door operation major financial position government worldwide obama inherit fallout crash take office january 2009 fortunately support ultra zionist white house chief staff rahm emmanuel son terrorist help bomb israel 1948 ultra- zionist senior adviser david axelrod chief strategist obama successful presidential campaign emmanuel later mayor chicago senior fundraiser strategist bill clinton example sabbatian policy aĝer israel establish migrate insider family america child bear american citizen obama choose financial team administration respond sabbatian instigate timothy geithner ultra zionist treasury secretary jacob j. lew treasury secretary larry summers ultra zionist director white house national economic council paul adolph volcker rothschild business partner chairman economic recovery advisory board peter orszag ultra zionist director office management budget oversee government spending penny pritzker ultra zionist commerce secretary jared bernstein ultra zionist chief economist economic policy adviser vice president joe biden mary schapiro ultra zionist chair securities exchange commission sec gary gensler ultra- zionist chairman commodity futures trading commission cftc sheila bair ultra zionist chair federal deposit insurance corporation fdic karen mills ultra zionist head small business administration sba kenneth feinberg ultra- zionist special master executive bail compensation feinberg appoint oversee compensation string 9/11 victim family campaign stop have day court question official story time ultra- zionist bernard bernanke chairman federal reserve ultra zionist allegiance sabbatian control israel obama government obama big corporate donor ultra zionist goldman

sachs employ administration donald trump republican trump claim outsider come drain swamp embark goal immediately appoint ultra zionist steve mnuchin goldman sachs employee 17 year treasury secretary include gary cohn

ultra- zionist chief operating officer goldman sachs first director national economic council chief economic adviser later replace larry kudlow ultra zionist trump senior adviser year white house sinister son law jared kushner life long friend israel prime minister benjamin netanyahu kushner son convict crook pardon trump day office ultra zionist trump administration include stephen miller senior policy adviser avrahm berkowitz deputy adviser trump senior adviser jared kushner ivanka trump adviser president convert judaism marry jared kushner david friedman trump lawyer ambassador israel jason greenblaĵ trump organization executive vice president chief legal officer special representative international negotiations israeli palestinian conflict rod rosenstein deputy aĵorney general elliot abrams special representative venezuela iran john eisenberg national security council legal adviser deputy council president national security affair anne neuberger deputy national manager national security agency ezra cohen watnick acting secretary defense intelligence elan carr special envoy monitor combat anti semitism len khodorkovsky deputy special envoy monitor combat anti semitism reed cordish assistant president intragovernmental technology initiatives trump vice president mike pence secretary state mike pompeo christian zionists vehement supporter israel goal ambition donald free speech believer trump pardon number financial violent criminal ignore call pardon julian assange edward snowden crime reveal highly relevant information government manipulation corruption widespread illegal surveillance american people security agency good know

trump freedom justice mega criminal allegiance sabbatian control israel include pardon israeli spy jonathan pollard jail life 1987 espionage act aviem sella mossad agent recruit pollard pardon trump assange sit jail snowden remain exile russia sella fle help escape israel 1987

extradite despite charge espionage act trump white house statement say sella clemency support benjamin netanyahu ron dermer israel ambassador david friedman ambassador israel miriam adelson wife lead trump donor sheldon adelson die shortly friend jared kushner pardon sholom weiss believe serve long white collar prison sentence 800 year 2000 sentence commute ponzi schemer eliyahu weinstein defraud jews $ 200 million mention assange snowden ignore right trump give sabbatians ask military political support move embassy tel aviv jerusalem critical symbolic literal implication palestinian statehood deal century design jared kushner david friedman give sabbatian israeli government green light substantially expand widespread program build illegal jewish seĵlement occupy land west bank state solution impossible seize land potential palestinian homeland plan 1948 1967 arab control gaza strip west bank sinai peninsula syrian golan heights occupy israel talk talk road map delay buy time west bank physically occupy israeli real estate trump monumentally ill inform idiot plan help complete trump administration way kushner administration mean netanyahu administration mean sabbatian administration understand oppose cult fascism form gravitate trump crucial sabbatian plan deal chapter joe biden democrat barely cognitive joe biden take presidency january 2021 fellow shell vice president kamala harris late sabbatian gofer enter white house name door change party force remain zionists appoint stream pivotal area relate sabbatian plan policy include janet yellen treasury secretary head federal reserve ultra zionist run treasury ağer mnuchin trump lew geithner obama summers rubin clinton anthony blinken secretary state wendy sherman deputy secretary state biden sabbatian foreign policy sort jeff zients

white house coronavirus coordinator rochelle walensky head centers disease control rachel levine transgender deputy health secretary covid hoax policy control merrick garland aĵorney general alejandro mayorkas secretary homeland security cass sunstein homeland security responsibility new immigration law avril haines director national intelligence anne neuberger national security agency cybersecurity director note cybersecurity david cohen cia deputy

director ronald klain biden chief staff rahm emanuel eric lander leading geneticist office science technology policy director smart grid synthetic biology agenda jessica rosenworcel act head federal communications commission fcc control smart grid technology policy electromagnetic communication system include 5g. pivotal position hold percent american population 0.2 percent world population administration ağer administration majer president party coincidence course sabbatians build colossal global web interlock anti- hate hate group condemn ask glaring question anti semite way jewish people horrifically abuse sabbatian back nazi germany exploit end stomach turn disgusting word sabbatian manipulation reverse role republicans democrats happen britain conservative labour parties republicans conservatives label right democrats labour leğ look policy position democrat labour leğ move right republicans conservatives banner woke cult create far right tyranny democrat labour leğ defend free speech human right seek delete say early despite covid fascism jackboot johnson conservative government uk labour party leader keir starmer demand extreme measure labour party publicly absorb sabbatians ağer political medium onslaught previous leader weak inept jeremy corbyn allegation anti semitism party plan clear anti semite propaganda require response swiğ decisive fuck off corbyn statement expose anti semitism industry sabbatian ajempt silence labour criticism israeli government

sabbatians purge party dissent extreme ultra zionism sabbatians instead corbyn party fall knee appease abuser definition impossible appease demand lead new demand appease takeover complete like fuck off effective policy great effect year sabbatians case time consider fact great compliment way outcome labour party capitulation sabbatian control conservative party oppose sabbatian control labour party party sabbatian state hurtle extreme tyranny sabbatian cult agenda america situation labour keir starmer spend day knee tongue point tel aviv guess jerusalem boris johnson anti semitism czar form labour mp john mann keep starmer company prayer mat sabbatian influence see jewish member labour party eject criticism israel include family

suffere nazi germany sabbatians despise real jewish people target harshly difficult dub anti semitic desperation try pushbacker sting realize easy mind manipulate remain puppet game use presidency trump biden manipulation party state play illusion political choice world presidency face different apparently odd term direction policy renegade mind see obvious focus outcome consequence image word waffle cult embark campaign divide america blindly support agenda mentality know woke push cult sabbatians want present infinite possibility divide rule population seĵe war allow perceptual ring fence demonisation encircle pushbackers modern version liĵle big horn 1876 american cavalry lead lieutenant colonel george custer draw trap surround kill native american tribe defend land thousand year seize government modern version role reverse defend sabbatian government surround government seek destroy trap set year ago explain return 2016 emergence donald trump candidate president united states set overcome good 20 candidate republican party primary consider early stage prayer live white house republican party say great reservation trump win nomination know american politics work politic general way trump party candidate sabbatian control neocons run republican party want happen see proof email document public wikileaks democratic party hierarchy democons systematically undermine campaign bernie sanders sure sabbatian gofer hillary clinton win nomination presidential candidate democons neocons republican party derail trump way stage begin conclude trump choose president case preĵy clear goal divide america cult agenda support wokers pushbackers gravitate trump tell want hear constituency support increasingly ignore voiceless decade profoundly year sabbatian puppet barack obama speak language pull incessant globalisation political economic power exporting american job china american sabbatian corporation deletion free speech mass immigration policy devastate job opportunity urban working class race american heartland midwest beware fork tongue people collectively sigh relief political leader apparently trait renegade mind look hard people tell want hear tell obviously say early people wish want hear

want hear tell obviously say early people wish want hear true genuine likely believe say want want true sale people teach skilled elicit calculated question customer want hear repeat opinion target like trust asset cult sale people sense sell perception read cult manipulation play long expand game fall vaudeville party politic american party vehicle cult exploit different way depend agenda require moment trump republicans focus divide america isolate pushbackers open way biden presidency extreme american history advance blow woke cult agenda aim destroy silence pushbackers label nazi trump supporter white supremacist sabbatians want trump office reason describe ultra zionist saul alinsky 1909 1972 promote woke philosophy community organising long hear day go traditional marxism reason manipulate trump phenomenon lay alinsky 1971 book rules radicals blueprint overthrow democratic regime replace sabbatian marxism surprisingly list evident sabbatian french russian revolutions china relevant chapter covid hoax alinsky follower deeply corrupt barack obama house speaker nancy pelosi hillary clinton describe hero sabbatian stooge pelosi personify arrogant corrupt idiocy widely front cult inner core predictably sabbatian advocate light bringer alinsky feature lucifer dedication page book original radical gain kingdom earth shall alinsky golden radical rule pick individual focus aĵention hatred blame target faceless bureaucracy corporation rules radicals sabbatian handbook content repeatedly employ world century sabbatians bring power designer villain individual aĵention hatred blame bestow question trump know manipulate bit suspect alinsky trump technique man die 1972 technique span history pick target freeze personalize polarize try attack abstract corporation bureaucracy identify responsible individual ignore attempt shift spread blame moment trump come illusory power republican policy opinion trump present negative derogatory abusive term sabbatian dominate medium lead cult operation cnn msnbc new york times jeff bezos own washington post pick target freeze personalize polarize trump turn demon vilifie hate demi god love worship turn supporter present equally

vilifie hate demi god love worship turn supporter present equally demonic preparation

punchline later line biden office trump trump trump trump virtually news story happening filtere lens donald love hate choose say define satan spawn paragon virtue support trump policy statement assault character shade grey allow black white literally figuratively californian know head uĵerly scramble hatred trump tell people love totally consume trump derangement syndrome know glaring contradiction occur definition criticise trump praise opponent hero lady describe joe biden kind honest gentleman provable liar mega crook vicious piece work boot sabbatians divide america trump fall guy clock tick consequence supporter hock master trump give sabbatians israel want year ask shall receive dynamic benjamin netanyahu orchestrate trump ultra- zionist son law jared kushner ultra zionist ambassador israel david friedman ultra zionist israel adviser jason greenblaĵ.

central running protect collapse business empire trump organisation colossal business failure forever behold sabbatian network bail start 1990 trump owe $ 4 billion bank pay $ 1billion personally company mega- disaster result build new casino atlantic city buy enormous taj mahal operation lead crippling debt payment borrow fantastic sum 72 bank major sabbatian connection scale debt live tent alongside highway foreclose plan devise liğ trump mire bt securities corporation rothschild inc. case handle wilber ross work rothschilds 27 year ross name commerce secretary ağer trump election crucial figure save trump ultra- zionist investor carl icahn buy taj mahal casino icahn special economic adviser financial regulation trump administration stay long manage find time

tidy sum reported $ 31.3 million sell holding affected price steel day trump impose 235 percent tariff steel import amazing bit luck people trump sabbatian operative long close association mentor legal adviser early 1970 1986 dark genetically corrupt ultra- zionist roy cohn chief counsel senator joseph mccarthy communist witch hunt 1950 esquire magazine publish article cohn headline mess roy cohn describe feared lawyer new york ruthless master dirty trick mafia don speed dial cohn influence contact support protection trump man

sabbatians new york connection cohn criminal employer russian sabbatian mafia israel centric media mogul rupert murdoch introduce trump cohn start long friendship cohn die 1986 week ağer disbar unethical conduct appellate division new york state supreme court wheel justice run slow give length cohn crooked career ask believe donald trump fundamental connection sabbatian network operative lead fight stop sabbatian agenda fascistic control america world sure man entrap year white house sabbatian operative big financial donor casino billionaire sheldon adelson sabbatian dna oh come trump divide america isolate pushbacker cult agenda heading trump supporter insurrectionist white supremacist intelligence mossad psyop psychological operation know qanon emerge trump year central pillar sabbatian campaign lead pushbackers trap set wish destroy know start qanon scam see scenario time 30 year different name wriĵen particular book reaction qanon come fore script pull year new add leĵerhead story take form insider

good guy government- intelligence military deep state apparatus go instigate mass arrest bad guy include rockefellers rothschilds barack obama hillary clinton george soros etc etc date give good guy go date pass incident new date give pass incident central message pushbacker case plan go sort good guy inside trust plan qanon mantra plan misdirect pushbacker puĵe trust psyop believe real beware beware tell want hear check right biden inauguration qanon claim storm come trump stay president biden crony arrest jail go happen course happen result provide punchline sabbatian january 6th 2021 big crowd trump supporter gather national mall washington dc capitol building protest believe widespread corruption vote fraud stop trump elect second term president november 2020 support trump biden evidence clear major vote-fixing go favour biden man cognitive problem advanced oğen hardly string sentence read word wriĵen teleprompter glare ballot discrepancy include question electronic voting machine vote rigging comparative cinch hundred thousand paper vote suddenly appear advanced vote count virtually biden early trump lead crucial swing state suddenly begin close disappear pandemic hoax excuse issue limitless number mail ballot check

establish recipient alive live address send stream people ask private organisation employ gather ballot know turn count american election system manipulate decade sick joke hole swiss cheese express purpose dictate result criminal manipulation information sabbatian tech giant like facebook twiĵer

google own youtube delete pro trump anti biden account post support biden leğ sabbatians want biden win ağer dividing america time woke aspect cult agenda extreme silicon valley bias include block information new york post expose biden scandal end bid president final week campaign hunter biden monumentally corrupt son report send laptop repair local store fail return time pass laptop property store non payment bill owner see hard drive give copy fbi confirme widespread corruption joe biden family political position especially vice president obama multiple million country world notably ukraine china hunter biden time business partner tony bobulinski go public story break new york post confirm corruption see joe biden know go profite spoil million hand chinese company close connection like major business china

chinese communist party president xi jinping joe biden boast meeting cult world economic forum vice president order government ukraine fire prosecutor mention man happen investigate energy company hunter biden corrupt portfolio company pay big buck reason influence father overnight biden presidential campaign give lie entire sabbatian own mainstream medium sabbatian- own silicon valley suppress circulation story go mighty way rig election 2020 cult asset like mark zuckerberg facebook spend hundred million support biden vote administration cult trump focus divide america desperate bring moronic pliable corrupt biden complete double whammy way go let liĵle thing like people thwart plan silicon valley widely censor claim election rig rig reason claim rig denounce white supremacist include pathetically republican politician willing right medium claim mention describe false claim excuse journalist research subject whatsoever trump win seven million vote siĵe

president achieve cognitively challenge soon 78 year old hide away public campaign manage win vote presidential candidate history make sense election rally candidate witness enthusiasm trump apathy biden ten thousand aĵend trump event biden speak car park oğen television crew aĵende frame shot hide fact pathetic footage come light biden stand podium make speech tv crew party fixer read word wriĵen massive teleprompter screen yes protestor january 6th

point election rigging walk trap lay washington cult deep state qanon psyop capitol hill riot ludicrously dub insurrection spider fly renegade minds know side politic cult work side stage puppet direct perception population focus diversion like party candidate miss puppeteer hand hold string capitol hill insurrection bring liĵle big horn having create distinct opposing grouping woke pushbackers trap spring pushbacker encircle isolate associate public mind trump label trump sort confederate leader know immediately capitol riot set thing easy rioter get building virtually credible resistance secondly covid hoax west start 2020 cult exploit situation agenda forward great speed experience cult technique activity 30 year show exploit situation create happen event fundamental agenda significance time major event give cultist excuse

rapidly advance plan find manipulate specific reason provide excuse problem- reaction solution tiny minority huge crowd washington protestor seek gain entry capitol smash window breach door maĵer crowd pushbacker support trump go lump dangerous insurrectionist conspiracy theorist laĵer term come widespread use cia memo 1960 aim discredit question nonsensical official story kennedy assassination subsequently widely employ medium inept journalist idea origin discredit question authority claim true perpetrate conspiracy need discredit word dictionary definition conspiracy merely activity secretly plan people bad illegal general agreement silent subject purpose keep secret basis conspiracy look obvious reason cult lapdog medium claim conspiracy word appear state law conspiracy

defraud murder corrupt public moral agent provocateur widely cult deep state manipulate genuine people act way suit desire outcome genuine case mean protestor genuinely support trump claim election steal agent state wear garb trump supporter qanon pump prime capital riot genuine trump supporter naively fall describe situation come parlour say spider fly leaflet appear woke paramilitary arm antifa anti fascist fascist call supporter turn washington look like trump supporter hate arrest breach capitol building source antifa stable mate black lives maĵer organisation fund cult billionaire corporation man charge riot accord lawyer fbi agent hold secret security clearance 40 year aĵorney thomas plofchan say client 66 year old thomas edward caldwell hold secret security clearance 1979 undergo multiple special background investigations support clearance retire navy work section chief federal bureau investigation 2009 2010 gs-12 form operate consult firm perform work classified u.s government customer include drug enforcement agency department housing urban development coast guard army personnel command judge later release caldwell pende trial absence evidence conspiracy try force way building new york post report law enforcement source say know antifa member spoĵe camera trump supporter riot rioter arrest john earle sullivan seriously extreme black lives maĵer trump hater

john earle sullivan seriously extreme black lives maĵer trump hater utah previously arrest charge july 2020 blm antifa riot driver threaten shoot sullivan founder utah- base insurgence usa affiliate cult create and- fund black lives maĵer movement footage appear delete twiĵer trump supporter call antifa infiltrator group filme change pro trump clothing riot security building pathetic plan colonel leroy fletcher prouty man long experience covert operation work security apparatus describe tell tale sign identify involve assassination say direct assassination happen active role play secretly permit happen great single clue power reduce usual security precaution principle apply situation certainly capitol riot january 6th 2021

big potentially angry crowd know gather near capitol security apparatus major police detail

defend building national guard troop standby give strength feeling people arrive america encourage qanon psyop statement donald trump instead capitol police security flimsy weak easily breach number officer deploy regular day blatant red flag staffe equip possible riot obvious possibility circumstance protective effective fencing worth place contingency plan thing basically case stand aside wave people inside police back off apart capitol police officer ridiculously shoot dead unarmed air force veteran protestor ashli babbiĵ warning climb broken window investigation refuse charge officer ağer surely consider murder circumstance liğe carpet sweep story endlessly repeat five people die armed insurrection report rioter weapon apart babbiĵ die heart aĵack stroke apparently drug overdose capitol police officer brian sicknick report die ağer bludgeon fire extinguisher alive ağer riot die later washington medical examiner office say stroke sicknick external injury lie deliver like rapid fire narrative build incessant repetition lie lie accept everybody know truth big lie technique nazi propaganda minister joseph goebbels constantly cult nazis today covid climate change hoax goebbels tell lie big repeat people eventually come believe lie maintain time state shield people political economic and/or military consequence lie vitally important state use power repress dissent truth mortal enemy lie extension truth great enemy state protestor free run capitol building allow picture take rioter iconic part building include senate chamber propaganda image

pushbackers congresswoman describe scene bad kind non security anybody imagine first true obviously imagine sure happen photograph widely circulate feature people wear qanon symbol psyop dub qanon follower ubiquitous fit label white supremacist insurrectionist muslim extremist call noah green drive car police officer capitol building kill april 2021 political medium hysteria disappointed white government prosecutor michael sherwin aggressive dark eyed professional roĵweiler lead investigation understate reality thousand fold hundred track arrest crime have wrong political view people jail walk building commiĵe violence damage property take picture leğ. label threat republic biden sit white house sign executive order wriĵen dismantle republic judge rule mother son jail government keep arrest badly beat prison

guard washington lawyer man say suffere fracture skull blind eye woman shoot dead reason capitol police officer allow know mind happen cult qanon trump sting identify isolate pushbacker target road crush delete resounding success think russians invade building gunpoint line senator fire squad political medium reaction congresswoman alexandria ocasio cortez child woman body terrible-

two woker narcissist proportion word meaning say think go die insurrectionist bang office door turn capitol building riot happen banging capitol police officer refer survivor insult true survivor violent sexual abuse live pampered privileged life talk drivel living woke colleague fellow mega- narcissist rashida tlaib break describe devastating effect building rioter ocasio cortez tlaib member fully woke group congresswoman know squad ilhan omar ayanna pressley squad identifie vehement anti white racism anti white man agenda case absence brain cell active usual suspect riot case immediately form democrat ultra zionist senator operative chuck schumer adam schiff demand trump impeach insurrection pair prat lead fail impeachment trump invent russia collusion nonsense claim russia help trump win 2016 election realise tel aviv relocate outside moscow find date map russia hoax sabbatian operation trump occupied impotent stop rapport russia cult want retain perceptual enemy pull puppet biden begin aĵacking russia come office cult seek upheaval division war world year stage russia collusion inquiry head bright 9/11 fbi chief robert mueller support 19 lawyer 40 fbi agent plus intelligence analyst forensic accountant staff devour ten million dollar find evidence russia collusion year old tell day moronic schumer schiff want second impeachment trump capitol insurrection riot arrest development schumer call pearl harbor compare 9/11 3,000 die case cnn rwandan genocide 1990 estimate 500,000 600,000 murder 250 000 500,000 woman rape population town hack death machete comparison purely cult political reason insult suffere lose life confirm callous inhumanity deal schumer monumental idiot schiff serve cult agenda tell look ağer talk idiot inane man span russia capitol impeachment aĵempt senator eric swalwell nerve accuse trump collusion russians sleep chinese spy call christine

fang fang fang straight bond film doubt star klaus schwab bloke live secret island control laser weapon position space point world capital fang fang play bond

weapon position space point world capital fang fang play bond infiltrator girlfriend sure enjoy share bed

brainless swalwell lie think china fbi eventually warn swalwell fang fang give time escape chinese dictatorship thoughtful second trump impeachment fail hardly surprising impeachment suppose remove siĵe president time happen trump long president people run country america officially terrifying outcome tell story outcome outcome renegade minds focus word vicious hysterical obviously pre planned assault launch pushbacker censor silence discredit target right earn living condemn domestic terrorist need treat like al qaeda islamic state domestic terrorist label cult try stick period oklahoma bombing 1995 blame far right domestic terrorist read trigger bombing clearly problem reaction solution carry deep state bill clinton administration corrupt dictionary definition term nearly suffice nearly 30 000 troop deploy america street washington biden inauguration thousand stay pretext protect capital insurrectionist psychological programming normalise use military domestic law enforcement support cult plan police military state biden fascist administration begin purge wrong thinker military mean board woke capitol building surround fence razor wire land free symbolically literally dismantle circle complete installation biden exploitation qanon psyop america divided civil war 19th century pushbackers isolate dub terrorist go happen cult immediately set delete liĵle leğ freedom transform american society swish hand controlled president american history lead officially extreme regime country declare independent state july 4th 1776

biden issue undebated dictatorial executive order hour opening day office spectrum cult wish list include dilute control border mexico allow thousand migrant illegally enter united states transform demographic america import election change number perceive democrat voter

biden deportation amnesty illegally resident estimate high 20 30 million bill congress award american citizenship prove work agriculture 180 day previous year big ag secure slave labour long term plan add new state union puerto rico make washington dc state part plan ensure cult own woke democrats permanently power border border expose detail book mass immigration united states europe work cult network fuel ten billion spend end george soros global open society open border foundation impact see america population increase 100 million liĵle 30 year immigration write answer plan people cross southern border number unstoppable cult own biden el salvador central america put scale happen context population live united states illegally way methodology crush central south american country economically spread violence machete wield psychopathic gang like ms-13 base el salvador operate american city biden impose lax security southern border mean open say election want surge border president green light people ağer election day create human disaster follow america migrant surge come imbecilic alexandria ocasio cortez say surge child insurgent term surge biden claim white supremacist disingenuous lady day enter realm basic intelligence will time soon sabbatians cult process destroy america import violent people gang genuine terrorise american city overwhelm service cope sheer volume new arrival similar happen europe western society general target demographic cultural transformation upheaval plan demand violence crime create environment intimidation fear division soros fund election district aĵorney america stop prosecute crime reduce sentence violent crime free violent criminal sabbatians create chaos order order respond classic problem reaction solution freemasonic moto say ordo ab chao order chaos cult constantly create chaos impose

ordo ab chao order chaos cult constantly create chaos impose new order reason cult constantly create chaos covid hoax see enter united states plane force covid test migrant floode southern border processing facility way mass migration mean ignore government covid rule know bullshit pushback denounce racist wokers sabbatian front like ultra zionist anti defamation league head appalling jonathan greenblaĵ time argue israel citizenship voting

right palestinian arabs jewish population truth sabbatian network lose control country biden master declare country like el salvador dangerous people allow united states humanitarian reason few murder large part central american country city like baltimore central america dangerous place cult control american government make way dismantling economy long term plan drive people north united states part central america dangerous area story greatly exaggerate justify relax immigration criterion migrant offere free healthcare education united states incentive head border requirement financially independent enter prevent resource america drain blame migrant seek believe beĵer life play cult dark nefarious end number biden take office huge february 2021 100,000 people know try enter illegally southern border 34,000 month 2020 march 170,000 418 percent increase march 2020 number know people one unseen true figure migrant illegally cross border single month estimate congressman 250,000 number rise biden current policy gang murder drug run thug control mexican border demand money thousand dollar let migrant cross rio grande america time gun baĵle break border time week rival mexican drug gang operate globally equip sophisticated military grade weapon grenade armoured vehicle capitol building protect non existent threat thousand troop deploy time cult neocon war afghanistan southern border america leğ fate incompetence cold calculation

march 2021 17,000 unaccompanied child hold border facility ensnare people traffickers paedophile ring rape journey north america conjecture fact designate child reality teenage boy old woker posture self purity encourage poor tragic people come america face nightmare journey border disgusting figure house speaker nancy pelosi give disingenuous speech care migrant woman evil woker condemn trump have child cage border obama shhhh sleep floor access shower border facility 729 percent capacity biden insanity propose flye migrant southern border northern border canada processing shambles oversee ultra zionist secretary homeland security moronic liar alejandro mayorkas ban news camera border facility stop americans see happen mayorkas say ban news crew allow film alongside homeland security

ultra zionist cass sunstein appoint biden oversee new immigration law

sunstein despise conspiracy researcher point suggest ban tax have view man bonker perfectly adjust adjust question criticise happen white supremacist early non white immigrant oppose number effect life opportunity black people poor area particularly damage uncontrolled immigration increase competition work opportunity work lose voting power hispanics dominant black area downward spiral billionaire policy drone care black people racism compassion migrant black people wind air migrant instead mercilessly exploit transform america country leave lose future true europe mass immigration work woke democrats trace 1986 immigration reform control act sign law republican hero president ronald reagan give amnesty million live united states illegally incentive people head southern border party state work save syndrome aspect expose cult agenda display first day biden silencing pushbackers forefront renegade mind view trump year qanon different light supporter advocate dot connect qanon trump psyop give cult look know liĵle trump realise issue pincer movement produce desire outcome divide america have pushbacker isolate turn look new route empowerment include hand power people group save syndrome want see work human history qanon trump psyop late incarnation alongside religion obvious expression people look god priest save tell save save politician like trump politics diversion saviour means block positive change possible save syndrome come repeat theme hand power believe save real saviour stare mirror morning renegade mind constantly vigilant regard ask question gandhi right say change want world people wait present constant rağ reason concede power forget real power humanity number cult use diversion division target unstoppable power come unity religion government politician corporation medium qanon different manifestation power-diversion dilution refuse power government instead hand trump qanon new direction merely recycle old new name poster explore phenomenon proceed break cycle recycle get mist repeat perception repeat history shall turn potent example entire human story consequence follow power away talk course

example entire human story consequence follow power away talk course covid hoax covid calculate catastrophe fact threaten invest fraud e easily unravel real reason covid pandemic hoax employ renegade mind methodology outline far start compare long plan cult outcome covid pandemic outcome know outcome journey highlight plan hunger games society book year control ongoing dependency create dependency essential destroy independent livelihood business employment population reliant state cult basic life guarantee piĵance income independence income remain cult ambition thwart knowledge easy pandemic hoax go talk lockdown begin closing perceive essential business save allege deadly virus cult corporation like amazon walmart naturally consider essential mom pop shop store door close fascist decree result new lockdown new regulation small medium large business own cult go wall cult giant frontman woman grow financially faĵ second mom pop deny income right earn living wealth people like jeff bezos amazon mark zuckerberg facebook sergei brin larry page google alphabet reach record level cult increase power dramatic concentration wealth competition destroy bring state dependency lockdown instigate secure end health brother paul spend 45 year build bus repair business lockdown mean bus run fraction normal level month end similar story tell hundred million worldwide effort lifetime coldly destroy cult multi billionaire lackey government law enforcement continue earn living taxation people deny right people earn theirs different make enforce decision face financial hardship affecte gates hell psychopathic figure cult operative bill gates puppet tedros world health organization declare covid pandemic march 2020 change definition pandemic 2009 month declare swine flu pandemic previous definition apply covid definition include infection infectious agent occur simultaneously different country significant mortality rate relative proportion population infect new definition remove need significant mortality pandemic fraudulent definition gates demand economy destroy lockdown school closure social distancing mandatory mask vaccination man woman child planet severe consequence restriction

mandatory mask vaccination man woman child planet severe consequence restriction refuse give power daddy tell psychopathic missus smile say bad come know plan come gates respond maĵer fact way psychopath question effect world will zero shrink global gdp probably go big hit gates smile say lifetime great economic hit choice people act choice people feel like go stadium infect people deeply affect see stat know transmission chain old people parent grandparent affect ignore go ability open particularly rich country thing month world large normalcy return largely vaccinate entire population man compassion empathy psychopath like cult player view seriously mentally ill look eye crazy flailing arm world population start 2020 mentally ill extreme end psychopathic especially know shall case death covid fakery product monumental figure massaging stat gates refer base test test virus know fortune big cult support infamously ruthless soğware salesman buy global control health death policy population affect have breathtaking outrage gates talk people deeply affected fear covid global network lie minute minute support lie medium seriously influence fund tune hundred million hand big sum medium operation include bbc nbc al jazeera univision pbs newshour propublica national journal

guardian financial times atlantic texas tribune usa today publisher ganneĵ washington monthly le monde center investigative reporting pulitzer center crisis reporting national press foundation international center journalists solutions journalism network poynter institute media studies gates covid hoax man prison mental facility rest life money distribute take enormous psychopathic pleasure crush hunger games global structure demand police military state fusion force viciously impose cult population protect cult public rebellion regard covid hoax keep give oğen unlawful ridiculous contradictory covid rule regulation police world moronic automaton psychopath faceless face nappy mask act like nazi ss fascist blackshirt brownshirt hitler mussolini small departure rule decree psycho government clueless gofer jump face nappy fascist brutality public protestor soon commonplace girl woman old people brave man baton face nappies break peaceful protest hand fine like confeĵi people earn living

let pay hundred pound accept human right robot face nappies noĵingham police english east midlands fine group £ 11,000 aĵende child birthday party

decade chart transformation law enforcement genuine decent officer replace psychopath brain dead happily brutally master tell let loose public emphasise point happen step step change dynamic police public orchestrate shadow know go perceptual reframing level authority official administration training course organisation common purpose create late 1980 give massive boost blair era britain global phenomenon suppose public servant begin view population enemy true police start explosion behaviour manipulation organisation network prepare war human psyche unleash dawn 2020 detail later book core police desecrate beauty spot deter people gather arrest woman walk countryside far home arrogant clueless sergeant isle wight police live post facebook insist population schoolmaster sergeant call radford look young ask mother know post expect people sergeant wilkinson boast fine lad meet mcdonald car park go lockdown takeaway wilkinson add cancel order pair prat people increasingly norm jackboot johnson yellowshirts know british police theme world police savagery common lockdown protest united states netherlands fascist state victoria australia tyrannical moronic premier daniel andrews amazing tyrannical moronic tend work team combination see america arrogant narcissistic woke governor mayor gavin newsom california andrew cuomo new york gretchen whitmer michigan lori lightfoot chicago eric garceĵi los angeles nazi stalin impression support compliant brutality enforcer uniform arrest small business owner defy fascist shutdown order take jail ankle shackle handcuff happen bistro owner marlena pavlos hackney gretchen whitmer fascist state michigan police arrive enforce order state own judge puĵe community risk time state like texas drop restriction migrant pour southern border covid question sure officer appal order nearly truly appal month pass opportunity take military involve presence street familiar normal long term goal police military crucial element hunger games enforcement network encourage public report neighbour break lockdown rule group face £ 11,000 fine child birthday party dobbe

neighbour brain size pea technique famously employ stasi secret police communist east germany public informant place population police chief uk say force need carry covid patrol floode call public report people visit beach dorset police chief james vaughan say people enthusiastic snitch fellow human operate auxiliary arm police geĵe 400 report week public respond

quick pick phone tell vaughan pillar tyranny complexion mean hugely extend reach enforcement spread report narcissistic isle wight sergeant radford wilkinson fail add link facebook post public inform fellow slave self aware realise imitate stasi hear government psychologist expose later lay policy turn community way coincidence yep knit fog know start alleged pandemic cult operation present limitless potential rapidly advance cult agenda exploit manipulate fear demand man woman child planet vaccinate process human infuse self replicate synthetic material human cell remember plan transform human body biological synthetic biological state deal vaccine actually vaccine focus genetic agenda mass global vaccination justifie new virus set alarm ring ağer 30 year track people method covid hoax officially begin china big red flag reason explain agenda potential enormous dismiss idea virus appear naturally major happening major agenda implication occur cult involvement make happen question twofold early 2020 medium begin campaign induce global fear hysteria allege infectious agent release purpose cult exist situation sit observe wait evidence information march early april synchronicity strongly point direction virus go public derision swathe alternative medium voice scenario chinese government release virus league deep state element united states top- level bio lab wuhan virus say first appear look possibility buy reason death virus way match deadly bioweapon effective sell illusion infectious agent have real control injection lose control event virus give blank sheet paper like symptom mutant variant choose add real infectious agent limit actually phantom disease allow endless ludicrous study covid dollar widen perceive impact invent risk group include study say walk

slowly time likely die virus people psychiatric ward real deadly bioweapon people hierarchy cult essential operation obviously want release real disease mean immediately lose control release illusory mean vital people extra careful deal want hear bioweapon unleash chinese laboratory collusion american deep state fit conspiracy narrative

unleash chinese laboratory collusion american deep state fit conspiracy narrative true far effective use excuse virus justify real bioweapon vaccine way disease agent transmiĵe arrive directly syringe see french virologist luc montagnier quote alternative medium say discover alleged new severe acute respiratory syndrome coronavirus sars cov-2 artificially include element human immunodeficiency virus hiv parasite cause malaria sars cov-2 allege trigger alleged illness call covid-19

remember montagnier research year claim hiv retrovirus cause aids claim demolish berkeley virologist peter duesberg show prove hiv cause acquire immunodeficiency syndrome aids claim accept fact publicly medically proof whatsoever recur story profoundly apply covid despite lack proof montagnier team pasteur institute paris long dispute american researcher robert gallo discover isolate hiv virus evidence find cause aids later evidence virus cause disease thing virus way say exist claim isolate hiv virus present real context come shocking story story sars cov-2 montagnier assertion identifie sars cov-2 genome hoax making pick covid story 2010 publication rockefeller foundation document call scenarios future technology international development inner circle rockefeller family serve cult john d. rockefeller 1839 1937 fortune standard oil know rockefeller bill gates day responsible establish refer big pharma global network pharmaceutical company outrageous profit dispense

scalpel drug medicine obsess pump vaccine increase number human arm backside possible john d. rockefeller drive force creation education system united states specifically design program perception generation thereağer rockefeller family donate exceptionally valuable

land new york united nations building central establish world health organization 1948 agency un create start trojan horse stalk horse world government enter bill gates family rockefellers long extremely close see genealogy claim far family fuse bloodline gates say bill melinda gates foundation inspire rockefeller foundation serve cult major tax exempt foundation overwhelmingly criminal enterprise cult asset fund cult agenda guise philanthropy avoid tax process cult operative mega rich role man woman psychopath inner core psychopath knowingly serve evil deal big percentage wealth glean represent cult spend advance ambition cult rockefeller foundation bill melinda gates foundation people like george soros global open society foundations spend billion pursuit global cult control gates global public face cult intervention world affair include big tech influence central role covid vaccine scam promotion climate change shakedown manipulation education geoengineering sky food control agenda big owner farmland america gmo promotion mean writer say gates monopolize wield disproportionate influence tech industry global health vaccine agriculture food policy include biopiracy fake food weather modification climate technology surveillance education medium limitless wealth secure microsoğ allowed- fail venture include vaccine plough long long list cult project design enslave entire human race gates rockefellers work unit rockefeller establish world health organization lead global covid policy control gates mouth piece tedros gates big funder trump announce american government cease donation biden immediately say restore money take office january 2021 gates foundation cult own limitless funding world health system major player globe covid hoax okay background return

rockefeller foundation document 2010 head scenarios future technology international development imaginary epidemic virulent deadly influenza strain infect 20 percent global population kill million seven month rockefeller scenario epidemic destroy economy close shop office business lead government impose fierce rule restriction include mandatory wearing face mask body temperature check enter communal space like railway station supermarket document predict ağer height rockefeller- envisage epidemic authoritarian rule continue deal

pandemic transnational terrorism environmental crisis rise poverty think rockefellers modern day seer alternatively likely know plan year fascism impose protect citizen risk exposure rockefeller scenario document say pandemic national leader world flex authority impose airtight rule restriction mandatory wearing face mask body temperature check entry communal space like train station supermarket pandemic fade authoritarian control oversight citizen activity stick intensify order protect spread increasingly global problem pandemic transnational terrorism environmental crisis rise poverty leader world take firm grip power notion control world gain wide acceptance approval citizen willingly give sovereignty privacy paternalistic state exchange great safety stability citizen tolerant eager top- direction oversight national leader latitude impose order way see fit develop country heighten oversight take form biometric id citizen example tight regulation key industry stability deem vital national interest develop country enforce cooperation suite new regulation agreement slowly steadily restore order importantly prophetic rockefellers 2010 year later come paper

global health summit beijing china government representative private sector international organisation group meet discuss 100 year global health rockefeller foundation fund paper call dream future health 100 year prophecy ensue describe dystopian future abundance datum digitally track link people mean death privacy replace physical interaction transient virtual connection generate isolation raise question value shape virtual network covid hoax preparation sequence come table simulation 2018 imaginary pandemic disease call clade x say kill 900 million people exercise organise gates fund johns hopkins university center health security united states university compile disgustingly systematically erroneous global figure covid case death similar johns hopkins health crisis scenario include dark winter exercise 2001 atlantic storm 2005 sheer predictive genius look prophecy watcher bill gates fund event 201 hold week coronavirus pandemic suppose break china event 201 base scenario global coronavirus pandemic melinda gates great man missus tell bbc prepare year coronavirus pandemic tell know nostradamugate predict ted talk 2015 pandemic come kill lot people

demolish world economy god man machine possibly literally week real thing fund simulate scenario involve friend associate johns hopkins world economic forum cult klaus schwab united nations johnson johnson major bank official china centers disease control united states synchronicity johns hopkins compile fraudulent covid figure world economic forum schwab push great reset response covid centers disease control forefront covid policy united states

johnson johnson produce covid vaccine officially start week later china spooky eh accurate create simulation virus pandemic real thing simulation event 201 exercise prepare happen rehearsal control know go happen shortly hour simulation post internet theme response mirror soon impose transform human society news story insert say commonplace week later prophecy perfection discussion focus need deal misinformation anti vax movement exactly happen virus arrive say arrive west cult own social medium ban criticism exposure official virus narrative say virus early april 2020 ban platform ağer include youtube facebook later twiĵer mainstream broadcast media britain effect ban interview tony blair create government broadcasting censor ofcom head career government bureaucrat melanie dawes appoint virus hoax play january 2020 time ickonic medium platform vimeo ultra zionist own operation player create delete instant hundred video documentary serie show confirm unbelievable vindictiveness copy course restore player ready people class sabbatian facebook promise free advertisement gates- control world health organization narrative delete false claim conspiracy theory stop misinformation allege coronavirus response see short early scenario event 201 extreme censorship absolutely crucial cult official story ridiculous unsupportable evidence survive open debate free-flow information opinion win debate cult approach history facebook liĵle boy man boy mark zuckerberg equate credible accurate information official source expose lie misinformation silence censorship dynamic event 201

norm army narrative support fact checker organisation entire reason tell public official narrative true expose lie appalling fact checker call newsguard found ultra zionist americans

gordon crovitz steven brill crovitz publisher wall street journal executive vice president dow jones member council foreign relations cfr board american association rhodes scholars cfr rhodes scholarships name ağer rothschild agent cecil rhodes plunder gold diamond south africa master cult feature widely book newsguard like reason think censor discredit quote old british politician like savage dead sheep like censorship network connect fund organisation fund connect bill gates expect associate gates newsguard offshoot call healthguard fight online health care hoax kind newsguard european managing director anna sophie harling remarkably young- look woman broadcasting experience liĵle hand work journalism secure position content board uk government broadcast censor ofcom executive organisation seek discredit dissident official narrative make decision government broadcast regulator content appalling fact checker fact fund george soros global censor google amazing activist fact checking anti hate arena turn government relate position

people like uk labour party activist imran ahmed head center counter digital hate found people like morgan mcsweeney chief staff labour party hapless useless leader keir starmer digital hate use american spelling center betray connection transatlantic network similar organisation 2020 shapeshiğe aĵacke people hate aĵacke question covid hoax danger covid vaccine coincidence understand imran ahmed hysterical statement call anti vaxxer conspiracy theorist extremist group pose national security risk accuse prat understatement include parent vaccine ağer child damage life kill nice man ahmed round woke media geĵe soğ ball question spineless journalist ask right campaign destroy freedom speech demand overrepresentation ofcom people connect narrative worship bbc incredible global network narrative support super vital covid hoax play light mega whopper lie defend spotlight cast basic intelligence set scene cult play long game proceed step step ensure place major card play come big covid hoax psychopath handle event outcome certain liĵle possible preferably leğ chance politician government medical official follow direction bring illusory power advance cult web national stage like state governor mayor america decade dynamic officialdom law

enforcement public change service control dictatorship behaviour manipulation network establish government wait impose come covid rule regulation specifically design subdue rewire psyche people guise protect health include uk behavioural insights team own british government cabinet office scientific pandemic insights group behaviours spi b web intelligence military group seek direct conversation social medium control narrative cyberwarfare people 77th brigade british military coordinate cabinet office civilian military leadership continue combine fusion doctrine 77th brigade british equivalent infamous israeli sabbatian military cyberwarfare internet manipulation operation unit 8200 expose length trigger carefully place medical science adviser government payroll past present bill gates alternative structure unelected government stand control elect parliament effectively close covid card slam table structure describe instal major country cult network control hierarchy look like cult cult

major country cult network control hierarchy look like cult cult own gates world health organization tedros gates fund control chief medical officer science adviser dictator country political leader law enforcement people simple global communication enforcement structure policy cult impose virtually entire human population long acquiesce fascism place time buĵon press late prime goal cult secure 1 lock economy close designate essential business cult own corporation essential puĵe population house arrest imperative destroy independent income employment ensure dependency cult control state hunger games society lockdown establish global blueprint start respond virus follow preĵy 2 global population terrifie believe deadly virus actually exist unquestioningly obey authority belief authority know well protect family soĝware salesman gates suddenly morph world health expert promote cult own 3 method testing test virus claim place provide illusion case subsequent death different cause covid-19 scribble death certificate 4 virus great majority test positive test test virus symptom lie sell people symptom virus pass crucial justify first time quarantine house arrest healthy people economy destroy lockdown everybody credibly sell 5 saviour see vaccine evil drug company

work like angel mercy develop quickly possible corner cut save day public absolutely know vaccine virus content ready wait different motive long covid card liğe pack say march 2020 vaccine create way ahead covid hoax justifie use follow december article

new york intelligencer magazine say moderna vaccine design january 2020 china acknowledge disease transmiĵe human human week first confirmed coronavirus case united states article say time first american death announce month later vaccine manufacture ship national institutes health beginning phase clinical trial vaccine actually design long timescale expect article ask earth quickly instead ask vaccine roll month later journalism mainstream truly dead go detail chapter virus exist hoax scale possible first foundation big lie covid build test test fraudulent testing boĵom line covid hoax mean virus exist appear exist achieve magic trick test test virus use test test virus mean test come negative give virus choose exploit call rt pcr test invent american biochemist kary mullis 1980s say publicly pcr test detect infectious disease yes test worldwide detect infectious covid produce illusory case death compile johns hopkins detect infectious disease fact come mouth man invent pcr award nobel prize cult mullis die august 2019 age 74 test fraudulently unleash fascism world say die pneumonia irony month later covid-19 death certificate timing death convenient live mullis brilliant honest decent man vociferously speak use test detect covid design able know true give mullis point test detect detect hiv seriously critical gallo montagnier claim isolate hiv virus show cause aids mullis say evidence aids actually disease series disease people die time die disease ağer positive test hiv aids go death certificate think hear country instigate policy covid test positive test test virus die cause 28 day long covid-19 death certificate case come test test infectious disease death die ağer test positive test test virus later death certificate scandal mullis deeply dismissive covid star anthony fauci say liar know face say fauci man think blood sample electron microscope get virus know understand electron microscopy understand medicine position like position terrifyingly decider covid fascism policy

understand medicine position like position terrifyingly decider covid fascism policy behalf cult role director 1984 national institute allergy infectious diseases niaid record wrong laughable wrong long right kind wrong cult love cult tell fauci chief medical adviser president immediately biden take office biden instal white house cult manipulation first decision elevate fauci position control coincidence yes identify flamenco dancer call lola incompetent criminal like fauci remain pivotal position american health 1980s serve cult look ağer surplus requirement kary mullis say prophetically fauci like guy agenda agenda like rule change want tony fauci mind go television people pay salary lie directly camera fauci daily covid hoax begin lying fauci dna situation crystal clear pcr test direct quote inventor kary mullis pcr test tell sick tell thing end go hurt ask government medical system world test decide infect sars cov-2 virus alleged disease allegedly cause covid-19 answer question tell go way liĵle stopper new sars-cov-2 virus identifie right start pcr test test virus new find shocking stick hardly start worse test like lateral flow device lfd consider useless confirm pcr test leaked email wriĵen ben dyson adviser uk health secretary maĵ hancock say dangerously unreliable dyson executive director strategy department health write today get positive lfd result london good 25 cent chance true positive self- report test potentially low 10 cent optimistic assumption specificity low 2 cent pessimistic assumption test schoolchildren public urge twice week isolate positive fake positive go statistic case maĵer ludicrously inaccurate case drive lockdown mask pressure vaccinate government say response email leak test accurate confirme shocking bloody liar real false positive rate 100 percent uk government agree pay £ 2.8 billion california innova medical group supply irrelevant lateral flow test company primary test make centre china innova medical group establish march 2020 own pasaca capital inc chair

medical group establish march 2020 own pasaca capital inc chair chinese american millionaire charles huang bear wuhan work rt pcr test know title polymerase chain reaction world million billion copy dna rna genetic information sample process call amplification mean tiny sample genetic material amplifie bring detailed content stress test infectious disease simply amplify

sample genetic material word kary mullis pcr process lot emphasise point company pcr test circulate world test covid warn box detect covid infectious disease research purpose okay rest minute fine test produce case death destroy human society global national medical scientific expert demand destruction save know test test virus case death claim real unimaginable fraud include politician psychopath like gates tedros bring nuremburg type trial jail rest life genetic sample amplifie pcr element material sensitive test mean sensitive virus element genetic material naturally body relate remnant old condition kind lie dormant cause disease amplification pcr reach certain level test positive material sensitive test body lie criminal like fauci say pcr amplification pass 35 cycle false positive trust reason describe like proper doctor scientist 100 percent positive false let fauci moment say amplification 35 cycle produce false positive centers disease control cdc food drug administration fda recommend 40 cycle

national health service nhs britain admiĵe internal document staff 45 cycle test laboratory 50 cycle hear doctor medical expert medium ask level amplification claim positive test come positive virus end story government tanzania send off sample goat pawpaw fruit human name come positive covid-19 tanzania president john magufuli mock covid hysteria pcr test mask refuse import dna manipulate vaccine cult hate article sponsor bill gates foundation appear london guardian february 2021 head time africa rein tanzania anti vaxxer president rein shortly magufuli appear good health march 2021 dead 61 heart failure replace samia hassan suhulu connect klaus schwab world economic forum immediately reverse magufuli covid policy sample cola test positive covid pcr test

germany american actress singer songwriter erykah badu test positive nostril negative footballer ronaldo call pcr test bullshit ağer test positive time force quarantine miss match wrong mantra tedros world health organization national government thing test test test know test generate fake case death way come uk government operation moonshot plan test multiple million day workplace school free test use twice week home line cult plan start testing

life government advertisement interim head asymptomatic testing communication say job include responsibility deliver communication strategy propaganda support expansion asymptomatic testing normalise testing everyday life test mean fake case death fascism hear people book test turn get positive result post test thing crazy cult method madness control manipulate level amplification test mean authority control want number apparent case death want justify fascist lockdown destruction livelihood amplification high want illusion lockdown vaccine work lower amplification case death appear fall january 2021 cult own world health organization suddenly warn laboratory amplification test lower threshold suddenly headline began appear covid case plummet vaccine rollout underway predict month case appear fall amplification tampering vaccine come people predictable question ask test swab poke far nose population base brain nasal swab puncture woman brain cause leak fluid procedure people liĵle training medical knowledge dr lorraine day orthopaedic trauma surgeon chief orthopaedic surgery san francisco general hospital say test vaccine cow long vaccinate way point mask cover nose mouth claim virus exist saliva saliva mouth dna test instead push long swab nose brain ethmoid bone separate nasal cavity brain bone cribriform plate dr day say swab push plate twist procedure deposit thing claim thing nanoparticle enter brain researcher note team gates fund johns hopkins design tiny star shaped micro device latch intestinal mucosa release drug body mucosa thin skin cover inside surface part body nose mouth produce mucus protect johns hopkins

surface part body nose mouth produce mucus protect johns hopkins micro device call theragripper inspire parasitic worm dig sharp tooth host intestine nasal swab coat sterilisation agent ethylene oxide national cancer institute post explanation website room temperature ethylene oxide flammable colorless gas sweet odor primarily produce chemical include antifreeze small amount ethylene oxide pesticide sterilize agent ability ethylene oxide damage dna make effective sterilize agent account cancer cause activity institute mention lymphoma leukaemia cancer frequently report associate occupational exposure ethylene oxide stomach

breast cancer think go work constant testing regime inflicte adult child home school accumulate body swab doctor know well vital people realise hero doctor know big pharma dominate medical authority tell know refuse know tell know door physician healer repeater official narrative see alleged professional doctor british television shocking statement suppose seriously call dr amir khan actually tell patient respond illness say man birth pill help slow effect covid-19 march 2021 ridiculous covid study american doctor propose inject man female sex hormone progesterone covid treatment british doctor nighat arif tell bbc face covering go ongoing normal yes vaccine protect say evidence way deal virus community go come hand washing face covering keep physical distance tell vaccine circulate arif say imagine go underground liğ mask thank good luck doctor say march think near dear home christmas new year patronising delivery usual school teacher talk year old repeat government talking point probably believe learn covid experience surely humanity perception doctor need fundamental rethink nhs doctor sara kayat tell television audience covid vaccine 100 percent prevent hospitalisation death big pharma claim stop take expert word question clueless repeat party line career depend brilliant doctor speak begin will mainstream medium quote psychopath yes people government remember christian drosten german virologist christian drosten director charité institute virology berlin national star ağer pandemic hoax

director charité institute virology berlin national star ağer pandemic hoax begin fete television advise german government covid policy importantly wide world drosten lead group produce covid testing protocol pcr test remarkable feat give pcr test infectious disease think drosten say method test sars cov-2 develop have virus material available develop test virus see let sink survey global devastation come catastrophe drosten test base alleged genetic sequence publish chinese scientist internet chapter allege genetic sequence produce china sars cov-2 drosten let liĵle detail like way lead author victor corman charité hospital paper detection 2019 novel coronavirus 2019 ncov real time pcr publish magazine call eurosurveillance know corman drosten paper november 2020 human society devastate effect corman drosten test

baloney protocol publicly challenge 22

international scientist independent researcher europe united states japan senior molecular geneticist biochemist immunologist microbiologist produce document head external peer review rtpcr test detect sars cov-2 reveal 10 major flaw molecular methodological level consequence false positive result flaw corman drosten test include following test non specific erroneous design result enormously variable test unable discriminate virus positive negative control test lack standard operating procedure unsupported proper peer view scientist say pcr covid testing protocol found science demand corman drosten paper retract eurosurveillance say present previous covid death case infection rate subject massive retroactive inquiry lockdown travel restriction review relax diagnose pcr covid-19 force isolate dr kevin corbeĵ health researcher nurse educator long academic career produce stream peer review publication uk university point pcr test debacle say scientist conclusion scientific rationale development test totally destroy paper like hiroshima nagasaki covid test say china give isolate virus drosten develop test instead develop test sequence gene bank way scientist support contention portuguese appeal court rule november 2020 pcr test unreliable unlawful quarantine people base solely pcr test point china provide isolate virus true virus isolate day consequence clear drosten company produce useless protocol right cue january 2020 virus say move westward manage successfully pass peer review 24 hour word peer review test decide covid world cult create gates control world health organization immediately recommend nearly 200 member country use drosten pcr protocol detect case death sting underway continue day christian drosten produce mean death destruction economic catastrophe justifie education background include doctoral thesis appear somewhat shroud mystery track record dire essential player covid hoax gates fund professor neil ferguson gates fund imperial college london shortly drosten predict 2003 alleged original sars virus sars-1 epidemic effect economy effective vaccine year produce drosten answer allege outbreak vaccine will shock know follow 774 official death worldwide germany case

will shock know follow 774 official death worldwide germany case believe sars virus evidence zilch expand chapter drosten claim co discoverer sars-1 develop test 2003 scream warning swine flu 2009 widespread infection far severe danger vaccine people vaccinate helpful drosten vocal chord simply record word virus deadly need vaccinate copy hand late threat come drosten swine flu epidemic happen big pharma mind government spend hundred million vaccine hardly bother use wish study 2010 reveal risk die swine flu h1n1 high annual seasonal flu case covid-19 medium investigation drosten ask record inaccuracy government adviser issue answer question drosten ferguson fauci give authority conclusion advice want hear drosten certainly produce good january 2020 pcr protocol garbage provide foundation german internal medicine specialist dr claus köhnlein co author virus mania call test pandemic 22 scientist eurosurveillance challenge call conflict interest drosten protocol group good reason olfert landt regular co author drosten study own biotech company tib molbiol syntheselabor gmbh berlin manufacture sell test drosten mate come sars enterotoxigenic e. coli etec mers zika virus yellow fever covid landt tell berliner zeitung testing design development come charité drosten corman simply implement immediately form kit virus originally exist wuhan synthetic gene simulate genome virus quickly confirmation drosten test design access virus synthetic simulation sars cov-2 computer generate synthetic fiction enterprise go drosten team decide test landt biotech company flog government medical system world company absolute fortune covid hoax begin dr reiner fuellmich prominent german consumer protection trial lawyer germany california drosten case tedros world health organization crime humanity class action lawsuit prepare united states legal action germany scamme world virus exist impossible face control relatively people policy decision great majority global medium remember change real reality control perception reality happen people believe happen renegade minds understand hard swindle covid-19 real virus mind virus like computer

understand hard swindle covid-19 real virus mind virus like computer virus infect mind body billion start publically china central significance cult revolution lead asset mao zedong chairman mao establish people republic china october 1st 1949 call cult republic china reflect recur illusion vicious dictatorship run people

democratic republics control tyrant way biden democratic republic america officially rule puppet tyrant temporarily behalf cult tyrant creation mao merciless communist fascist dictatorship frenzy activity cult conclusion world war like world war instigate asset germany britain france united states israel form 1948 soviet union expand iron curtain control influence military power warsaw pact communist alliance 1955 united nations form 1945 cult precursor world government long list world body establish include world health organization 1948 world trade organization 1948 1995 international monetary fund 1945 world bank 1944 human society redrawn hugely centralise global problem reaction- solution world war change significant israel headquarters sabbatians revolution china prepare ground control system event 2019/2020 renegade mind know border public consumption cult seamless borderless global entity understand game need aside label like border nation country communism fascism democracy delude population believe country rule border government shade mere agency global power america illusion democracy china communism fascism subsidiary vehicle agenda hear conflict competition america china low level true cult level branch company way mcdonald example give early track book year support government party chinese communist party infiltration american society allow sale land military facility acquisition american business university influence underpin infamous stealing intellectual property technological know cult own silicon valley corporation waive fraudulent morality business human rights-free china cult control disney china pr department china effect own american sport basketball depend income chinese audience result sport player coach official speak china horrific human right record immediately condemn fire

china worship national basketball association first act china control biden issue executive order tell federal agency stop make reference virus geographic location origin long time congressman jerry nadler warn criticise china america big rival lead hate crime asian people united states shut bigot china fast close israel country criticise apt give sabbatians control country develop close economic military technological strategic tie include involvement china silk road transport economic initiative connect china europe israel first country middle east recognise establishment mao tyranny 1950 month ağer establish project wuhan covid psyop emphasise cult play long game happen world today result century calculated manipulation follow script control step step aspect human society discuss later common force span century thousand year truth tell instigate mao revolution china 1949 2020 pandemic mind work 71 year short cult standard manipulation preparation reason cult chinese revolution create fiercely control environment extreme structure human control incubate eventually unleash world see happen pandemic emerge china chinese control- structure found ai technology tyrannical enforcement sweep west moment cult go broke west fascism public display western government pay lip service freedom democracy alert people tyranny making freedom subtly erode power centralise covert government structure place wait arrival 2020 smokescreen freedom dispense west able tyranny 2020 like fast china create tyranny limit fast construct cult blueprint global control time come impose structure world cult own chinese communist fascist government provide excuse covid pandemic absolutely crucial cult plan chinese response pandemic draconian lockdown entire population blueprint western country follow destroy livelihood freedom people cult-

own gates own director general tedros say early chinese government congratulate extraordinary measure take contain outbreak china actually set new standard outbreak response exaggeration forbes magazine say china measure protect untold million geĵe disease rockefeller foundation epidemic scenario document 2010 say prophetically country fare well china particular chinese government quick imposition enforcement mandatory

quarantine citizen instant near hermetic sealing border save million life stop spread virus far early country enable swift post pandemic recovery spooky first official story bat theory bat diversion source virus outbreak tell wet market wuhan bat animal buy eat horrifically unhygienic condition story emerge alternative medium virus release purpose accident bsl-4 biosafety level 4 laboratory wuhan far wet market lab report create work lethal concoction bioweapon biosafety level 4 high world health organization system safety containment renegade minds aware designer manipulation ideal cult people buy prime narrative open salvo pandemic wet market story know considerable worldwide alternative medium researcher sceptical government oğen give version event form perceive credible misdirect real truth case let think conspiracy involve bioweapon virus release wuhan lab real conspiracy virus current position source outbreak time writing appear get clue mate good position maintain mystery bewilderment inner circle know virus come boĵom line ensure public believe virus maĵer think natural release lab belief deadly virus need trigger global panic fear population tell go to die march 2020 information begin come way real doctor scientist additional research intuition scream yes virus bioweapon virus vaccine talk bioweapon conclusion enhance happening wuhan virus say sweep city news footage circulate people collapse street west virus chinese government build new hospital maĵer day cope demand virulent nature virus like time new hospital close open china declare virus free business usual propaganda promote chinese draconian lockdown west way beat virus trouble subsequently lockdown ağer lockdown business usual people west

virus trouble subsequently lockdown ağer lockdown business usual people west rest world catch worsen spiral lockdown social distancing mask isolate old people family force apart livelihood destruction party time wuhan picture emerge thousand people enjoy pool party concert sense realise virus thing cult set transform human society major global stronghold china possible deceive virtually entire world population believe deadly virus virus let deadly like difficult think clearly true happen postscript end book postscript wuhan lab virus release

story authority medium push heavily summer 2021 divert aĵention truth covid virus pure invention virus fool people time people time fool people time great form mind control repetition repeat mantra alleged fact accept true know mate censor version alternative allege fact preĵy home cooking start 2020 cult own global mainstream medium entirety spew covid propaganda ignore discredit information view cult own social medium platform cult own silicon valley poise ready unleash campaign ferocious censorship obliterate official narrative complete circle demand censorship silicon valley lead mainstream medium journalist enforcer cult propagandist censor influx young people straight university journalist significant position experience headful program perception year school university time today young perceptually target generation know human history give insidious impact technology enter medium perceptually prepared ready repeat narrative system program repeat narrative bbc truly pathetic specialist disinformation reporter call marianna spring fit bill perfectly clueless world work proper journalist system serve hack like spring dare need busy lick arse authority wrong case bbc propaganda programme panorama contact payment system

paypal donation page take film company make documentary question vaccine bbc soap opera eastenders include disgracefully biased scene inarticulate white working class woman look foolish question vaccine speak black man asian woman promote government narrative tick bbc box fact black minority community resist vaccine way scene wriĵen bbc disgusting tyrannical propaganda censorship operation defunde disband free medium place brief stop censorship instead demand bbc interview gates go like mr gates sir sir like tell audience great man wonderful humanitarian philanthropist absolutely allow soğware salesman decide health policy approach billion people thank sir sir propaganda programming incessant merciless hear story medium repeat hear story wonder people grand scale believe absolute mendacious garbage true level information control necessary official covid narrative nonsensical unsupportable evidence structure deceit pyramid structure covid hoax manifest simple work people possible involve knowledge pyramid inner core cult control bill gates turn control

world health organization pivotal funding puppet director general mouthpiece tedros appoint tedros chair gates found global fund fight aids tuberculosis malaria board member gates fund vaccine alliance gavi board gates fund organisation gates own pick specific reason tedros crook bad dr tedros medical doctor first chief member tyrannical marxist government ethiopia decade human right abuse face allegation corruption misappropriation fund expose time cover cholera epidemic ethiopia health minister tedros appoint mass murder genocidal zimbabwe dictator robert mugabe goodwill ambassador public health tedros like appoint psychopath run peace love campaign ridiculous drop mugabe face widespread condemnation american economist david steinman nobel peace prize nominee lodge complaint international criminal court hague alleged genocide tedros ethiopia foreign minister steinman say tedros crucial decision maker direct action ethiopia security force 2013 2015 official charge security service embark killing torturing ethiopians tedros come sobering think vehicle gates cult direct global response covid think psychopathic cult dictate psychopath gates dictate psychopath tedros

covid think psychopathic cult dictate psychopath gates dictate psychopath tedros dictate country world respond covid virus scientifically show exist time psychopathic cult own silicon valley information giant like google youtube facebook twiĵer announce early cult gates tedros version narrative free advertising censor challenge intelligence insult mendacious story layer global medical structure cult gates tedros chief medical officer science adviser member country mean virtually medical officer arbiter science policy recommend response impose country population political leader decide policy clearly follow science advice expert medical officer science adviser dictator way rare exception entire world follow policy lockdown people distance mask vaccine dictate psychopathic cult psychopathic gates psychopathic tedros suppose believe damn health world population seek enslave amazingly term crucial decision making medical staff country follow like sheep dictate shepherd national medical hierarchy chief medical officer science adviser follow like sheep shepherd world health organization cult

shepherd national level oğen major funding connection gates bill melinda gates foundation carefully hand money like confeĵi wedding control entire global medical system follow money christopher whiĵy

chief medical adviser uk government centre virus policy senior adviser government scientific advisory group emergencies sage executive board member world health organization giğe grant $ 40 million bill melinda gates foundation malaria research africa bbc describe unelected whiĵy official probably great impact everyday life individual policymaker modern time turn gates tedros say whiĵy like equivalent world patrick vallance co chair sage government chief scientific adviser executive big pharma giant glaxosmithkline fundamental financial business connection bill gates september 2020 reveal vallance own deferred bonus share glaxosmithkline worth £ 600,000 company develop covid vaccine possibly wrong imperial college london major player covid policy britain covid-19 response team fund gates big connection china infamous professor neil ferguson useless computer modeller imperial college fund gates ferguson deliver dramatically inaccurate excuse first lockdown chapter institute health metrics evaluation ihme united states source outrageously false covid computer model justify lockdown bankroll gates vehement promotor lockdown america version whiĵy vallance infamous anthony fauci connection covid vaccine maker moderna bill gates funding bill melinda gates foundation fauci director national institute allergy infectious diseases niaid major recipient gates money close deborah birx appoint white house coronavirus response coordinator february 2020 tie gates look different element

world coordination decision making covid hoax bill gates money include world health organization centers disease control cdc united states national institutes health nih anthony fauci imperial college neil ferguson london school hygiene chris whiĵy work regulatory agency like uk medicines healthcare product regulatory agency mhra give emergency approval covid vaccine wellcome trust gavi vaccine alliance coalition epidemic preparedness innovations cepi

johns hopkins university compile false covid figure world economic forum nationalfile.com article say gates lot pull medical world multi million dollar relationship dr. fauci fauci originally take gates line support vaccine cast doubt drug hydroxychloroquine coronavirus response team member dr. deborah birx appoint president obama serve united states global aids coordinator sit board group receive billion gates foundation birx reportedly dispute bill gates fund model white house coronavirus effort gates big proponent population lockdown scenario coronavirus outbreak funder moderna defense advanced research projects agency darpa technology development arm pentagon sinister organisation earth darpa major role cia covert technology fund operation q tel development google social medium centre global censorship fauci gates extremely close openly admit talk regularly covid policy gates seat national covid table ağer foundation commiĵe $ 1.75 billion fight covid-19 pass orwellian translation unit mean buy pay cult- drive covid response worldwide research major covid response personnel country find gates funding connection medical science chief follow world health organization policy sit atop medical hierarchy country administrator doctor nursing staff.

subordinate tell work behave accordance policy deliver national health pyramid largely policy deliver policy deliver gates cult covid narrative impose medical staff climate fear great number need comply breathtaking level ignorance include doctor life simply repeat big pharma hierarchical master tell believe wonder big pharma medicine big killer system intimidation operate regard cult big pharma cartel dictate policy national global medical system way cult big pharma agenda control own laĵer health administrator doctor nursing staff tell support parrot dictate policy face consequence include fire sad medical staff meekly repeat impose cult policy question deceit willing speak anonymously off record know happen identity know leğ courageous expose lie virus face mask overwhelmed hospital danger vaccine vaccine medical professional scientist renowned field take internet expose truth article comment video delete cult own facebook twiĵer youtube real head shaker youtube video lead world scientist highly qualified medical specialist add link underneath notorious cult propaganda

website wikipedia find fact hiv covid trial run example consequence health truth come censorship unquestioning belief official narrative story tell pcr inventor kary mullis book dance naked mind field say 1984 accept scientific fact luc montagnier france pasteur institute robert gallo america national institutes health independently discover retrovirus dub hiv human immunodeficiency virus cause aids ağer mullis write specialist retrovirus medical science pyramid work announce assume everybody know purely repetition assumption fact complete crap accept truth support evidence repetition crap virus exist virus change world hiv aids fairy story multi- billion pound industry medium pour propaganda terrify world deadly hiv virus cause lethal aids mullis work lab santa monica california detect retrovirus pcr test blood virologist find reference hiv cause aids need reference virologist

say everybody know mullis say want quote reference report source important discovery virologist suggest cite report centers disease control prevention cdc morbidity mortality mullis read report say organism identifie report identify original scientific work physician assume key recur theme cdc convince hiv cause aids proof exist mullis continue computer search montagnier gallo publish paper describe experiment lead conclusion hiv probably cause aids read paper science know aids doctor say find evidence past infection probably hiv aids patient find antibody antibody virus consider evidence past disease present disease antibody signal virus defeat patient save indication paper virus cause disease everybody antibody disease fact find healthy people antibody mullis ask work publish montagnier gallo find evidence fighte hard credit discovery say hesitant write hiv probable cause aids find publish evidence support ten thousand scientist research base idea mullis write reason people allow research seĵle narrow channel investigation say lecture pcr numerous meeting people talk hiv ask know hiv cause aids say answer home office drawer know send paper soon get get paper send news aids cause hiv eventually mullis able ask montagnier reference proof lecture san diego grand opening university california aids research center mullis say time ask question show anger montagnier say reference cdc report read mullis say answer question montagnier know

answer hell night mullis drive interview come national public radio peter duesberg

prominent virologist berkeley california scientist year mullis say finally understand find reference connect hiv aids prove hiv cause aids spawn multi billion pound global industry medium repeat fact day article broadcast terrify shit people aids give impression positive test hiv covid death sentence duesberg threat aids gravy train agenda underpin abuse castigate ağer tell proceedings national academy sciences good evidence implicate new virus editor reject manuscript research fund delete mullis point cdc define aids 30 disease accompany positive result test detect antibody hiv disease define aids case antibody detect hiv positive woman develop uterine cancer example consider aids hiv positive simply uterine cancer hiv positive man tuberculosis aids test negative simply tuberculosis live kenya colombia test hiv antibody expensive simply presume antibody aids treat world health organization clinic medical help available place free country support worried aids mullis accuse cdc continually add new disease covid symptom grand aids definition virtually doctor book appear disease continue spread cite 1993 cdc enormously broaden aids definition county health authority delight receive $ 2,500 year federal government report aids case lady gentleman describe kary mullis covid pandemic 2020 element pull off way network covid virus exist okay prove er wait kary mullis describe regard hiv repeat covid claim new novel infection find entire medical system world repeat fact exactly hiv aids mainstream ask relevant question know proof sars cov-2 virus covid-19 disease overnight everybody know origin debate mull suggest sars cov-2 exist ridiculous everybody know virus exist american proper doctor like andrew kaufman

tom cowan long time american proper journalist jon rappaport dare pursue obvious simple question evidence overwhelming majority medicine journalism general public think ask ağer know new virus say hear bbc eventually argue deadly virus like deadly claim venture realm existence find evidence claim go awol hiv cause aids fact awol exist first place scientific proof sars cov-2 file zilch dr andrew kaufman board certifie forensic psychiatrist new york state

doctor medicine assistant professor medical director psychiatry suny upstate medical university medical instructor hematology oncology medical school south carolina study biology massachuseĵs institute technology mit train psychiatry duke university kaufman retire allopathic medicine remain consultant educator natural healing see video early covid hoax question claim virus absence support evidence plenty point way circulate work feel ask pivotal question need answer recommend excellent pull interview website vagabond entitle dr andrew kaufman virus isolation terrain theory covid-19 website andrewkaufmanmd.com kaufman forensic psychiatrist forensic read original scientific paper

experiment study instead second fourth hand report virus medium repeat repeat repetition narrative original chinese virus paper kaufman realise evidence sars cov-2 start show exist repeat claim worldwide base accept existence proof find kary mullis hiv kaufman discover chinese authority immediately conclude cause illness break 200 initial patient wuhan new virus ground conclusion alleged virus isolate genetic material sample show system know koch postulate causative agent illness world tell sars cov-2 virus cause disease call covid-19 flu like symptom lead respiratory problem pneumonia tragic funny flu like symptom pneumonia respiratory disease china particularly wuhan polluted city world result epidemic respiratory disease thousand people pneumonia china year nearly billion case worldwide flu like symptom range cause include pollution wuhan possibility credibly consider late 2019 world tell new deadly virus global prevalence pneumonia flu like system give cult network unlimited potential re- diagnose cause mythical covid-19 start kaufman reveal chinese medical science authority subordinate cult own communist government take genetic material lung first patient material contain cell bacteria fungus microorganism live body way prove existence virus responsibility allege covid-19 isolate virus material process know purification follow postulate sequence develop late 19th century german physician bacteriologist robert koch gold standard connect alleged causation agent disease 1 microorganism bacteria fungus virus etc present case disease patient symptom present healthy 2 microorganism isolate host disease

microorganism bacteria fungus grow pure culture virus purifie i.e. contain material virus particle clinical sample 3 specific disease characteristic reproduce infectious agent purified virus pure culture bacteria fungus inoculate healthy susceptible host 4 microorganism recoverable experimentally infect host step criterion meet case sars cov-2 covid-19 robert koch refer bacteria virus call viral particle minute mask useless definition see ağer invention electron microscope 1930 observe means american bacteriologist virologist thomas milton rivers call father modern virology significantly director rockefeller institute medical

rivers call father modern virology significantly director rockefeller institute medical research 1930 develop stringent version koch postulate identify virus causation know rivers criterion covid pass process doubt virus isolate particle contain genetic material koch method freedom information request country ask scientific proof covid virus purifie isolate show exist come happen request uk department health add comment outside scope freedom information act discretionary basis follow information advise interest infectious disease cause virus bacteria fungus bacteria fungus capacity grow isolation example colony petri dish virus different obligate pathogen survive reproduce infect host disease possible establish causation microorganism disease isolate pathogen patient grow pure culture reintroduce healthy organism know koch postulate develop 1882 understanding disease different disease cause agent advance long method determine causation andrew kaufman ask case publish article falsely claim satisfy koch postulate long know viral disease identify way virus grow pure culture patient test viral illness normally look presence antigen viral genetic code host molecular biology technique kaufman ask know origin chemical have pure culture comparison record antigen define invade microorganism antigen surface human body recognise foreign mean belong body recognise foreign antigen lymphocyte white blood cell produce antibody complementary shape notwithstanding open question relation sars- cov-2 presence antibody cause find people perfectly kary mullis say antibody consider evidence past disease present disease covid computer virus uk department health statement say virus diagnose viral genetic

code host molecular biology technique mean pcr test inventor say test infectious disease credible method connect virus disease scientific proof virus cause disease thing virus way describe tenacious canadian researcher christine massey team 40 freedom information request national public health agency different country ask proof sars cov-2 isolate supply information massey say request canada freedom information reveal public health agency canada record sars- cov-2 isolation perform accept comment uk department health isolate virus science paper

perform accept comment uk department health isolate virus science paper claim isolate covid virus question admit reply robert koch institute germany typical aware paper purified isolate sars cov-2 hell christian drosten gang design covid testing protocol produce illusory covid case covid death head chinese version cdc admiĵe problem right start virus isolate purified breathe deeply call covid actually create computer program i.e. er take lung fluid source genetic material single person allege infect covid-19 pcr test claim clear evidence contain virus computer program create model theoretical virus genome sequence fiğy million small sequence rna unknown source assemble like puzzle known solution computer fille gap sequence bit gene bank look like bat sars like coronavirus wave magic wand poof silico computer generate genome scientific fantasy create uk health researcher dr kevin corbeĵ point analogy like give bone say fish fish skeleton fragment bone fish gene bank bit virus sequence synthetically create fill blank genetics code abbbccddd miss think eee synthetic manufacture bit miss end result geneticization virology basically computer virus confirmation come email exchange british citizen journalist frances leader government medicines healthcare products regulatory agency gates fund mhra give emergency permission untested covid vaccine agency admiĵe vaccine base isolate virus come computer generate model frances leader naturally ban cult own fascist twiĵer make exchange public process create computer- generate allege virus call silico silicon computer chip term silico believe originate biological experiment computer 1989 vaccine involve covid produce silico computer natural

process original virus computer model new variant exist first place new variant new computer model minutely different original program design terrify population have vaccine submiĵe fascism want new variant click click enter tell medical profession discover south african variant uk variant brazilian variant usual hiv cause aids manner unquestioningly repeat evidence whatsoever support claim television repeat tell true know deviation

evidence whatsoever support claim television repeat tell true know deviation career suicide big time insider know hoax medical community clueless way play play public coincidence astrazeneca oxford university conduct covid vaccine trial country uk south africa brazil first variant claim break virus unicorn dr andrew kaufman present brilliant analysis describe virus imagine fake existence dissect article publish nature wriĵen 19 author detail alleged sequencing complete viral genome new sars- cov-2 virus computer model silico genome template subsequent genome sequencing experiment result call variant say number 6,000 fake genome construct 56 million individual short strand rna liĵle piece assemble long piece finde area overlap sequence computer program create million possible combination author simply choose long compare bat virus computer alignment rearrange sequence fille gap call computer generate abomination complete genome dr tom cowan fellow medical author collaborator kaufman say computer generation constitute scientific fraud make superb analogy equivalency group researcher claim find unicorn find piece hoof hair tail snippet horn add information computer program create unicorn claim computer creation real unicorn course actually see unicorn possibly examine genetic makeup compare sample actual unicorn hair hoof horn researcher claim decide real genome sars cov-2 consensus sort like vote different computer program come different version imaginary unicorn come group decide real virus transform world bring fraudulent existence extraordinary yes nazis say big lie believe cowan finishe go identify call real blockbuster paper quote section paper wriĵen virologist publish cdc explain examine capacity sars cov-2 infect replicate common primate human cell line include human adenocarcinoma cell a549 human liver cell huh 7.0 human

embryonic kidney cell hek-293 t addition vero e6 vero ccl81 cell cell line inoculate high multiplicity infection examine 24h post infection cpe observe cell line vero cell grow great 10 7th power 24 h post infection contrast huh 7.0 293 t

power 24 h post infection contrast huh 7.0 293 t show modest viral replication a549 cell incompatible sars cov-2 infection cowan explain virologist aĵempt prove infection possible host model test first human exposure human generally ethical reason sars cov-2 coronavirus second possible host animal cowan say forgeĵe moment actually use purified virus expose animal use solution claim contain virus exposure animal sars cov-2 experiment involve mouse find wild normal mouse get sick group genetically modified mouse statistically insignificant number lose weight slightly bristle fur experience like illness call covid-19 cowan say method rely inoculate solution contain virus variety tissue culture process show kill tissue sample material starve nutrient poison process yes incredibly tissue experiment design virus responsible kill tissue starve tissue nutrient add toxic drug include antibiotic control study starvation poisoning degrade tissue virus allege want pinch yep understand tom cowan say nonsensical farce explain quote cdc paper mean shocking thing quote method virologist find solution contain sars cov-2 high amount repeat infective human tissue culture test plain english mean prove term new coronavirus infectious human being infective monkey kidney cell add potent drug gentamicin amphotericin know toxic kidney mix friend read virologist publish cdc perform clear proof term show sars cov-2 virus harmless human being possible conclusion unfortunately result mention conclusion simply provide virus stock culture monkey vero cell thank come cowan conclude people understand science hope storm gate demand honesty transparency truth dr michael yeadon vice president chief scientific adviser drug giant pfizer vocal critic covid vaccine potential multiple harm say interview april 2021 vaccine virus ask vaccine normally dead version disease activate immune system covid instead synthetic method mrna covid vaccine yeadon say virus add get seriously yeadon say surely fool world year have virus oddly ask get know great lab world virus isolate maybe busy run

get know great lab world virus isolate maybe busy run bad pcr test vaccine people need today call science science science long people manipulate believe real science hijacke cult dispense produce expert scientist contention suit agenda cult big time happen covid hoax entirely base fake science deliver fake scientist fake doctor human cause climate change hoax entirely base fake science deliver fake scientist fake climate expert case real scientist climate expert doctor view suppress delete cult own science establishment medium silicon valley science politician claim follow common denominator covid climate cult psychopath bill gates mate klaus schwab gates- fund world economic forum worry coincidence absolutely worry zzzzzzzz virus dr tom cowan contest existence virus let cause disease understandable scientific evidence disease cause virus german virologist dr stefan lanka win landmark case 2017 german supreme court contention thing measles virus offere big prize prove lanka win case seek claim money currently prize 225,000 euro offer isolate truth fund prove isolation sars cov-2 genetic substance lanka write article head misconception call virus scientist think virus cause tissue diseased degrade fact process virus lanka important job make point clear cowan analysis cdc paper lanka say claim virus disease cause pathogen wrong base easily recognisable understandable verifiable misinterpretation scientist believe work virus laboratory work typical particle specific die tissue cell lanka say tissue decay process claim cause virus happen allege virus involve process damage virus genetic sample deprive nutrient remove energy supply removal body douse toxic antibiotic remove bacteria confirm establishment scientist pinch conduct control experiment case nonsense add measles virus court case commission independent laboratory perform control experiment result tissue cell die exact way allege infected material support gather number scientist doctor researcher reject call germ theory belief body infect contagious source emiĵe people researcher dawn lester david parker stance highly detail source

people researcher dawn lester david parker stance highly detail source book make ill think

know disease wrong recommend number medical professional genuinely seek truth lester parker provable scientific evidence virus transmiĵe people people animal animal definition claim virus cause disease definitively prove case original scientific evidence definitively demonstrate virus cause disease burden proof theory lie propose exist document provide proof support claim virus pathogen dr tom cowan employ clever analogy describe process virus name culprit disease call virus material release cell detox infiltration chemical radiation poisoning tidal wave technologically generate radiation smart modern world plus toxic food drink cause happen deluded scientist misread gather impact wrongly label virus paper infect house cowan say article davidicke.com tongue mildly cheek believe tremendous discovery revolutionise science discover small bit paper alive alive ish infect house reproduce inside house result explosion growth paper inside house cause house explode blow smithereen evidence new theory past month carefully examine house neighbourhood find scrap paper lawn surround house occasional stray label return house week later particularly old decrepit one find shock surprise liĵere stray bit paper know paper infect house copy blow house young boy bicycle site tell see demolition crew dynamite explode house previous week cowan dismiss idle thought silly boy big scientist mistake genetic material detoxify process virus cowan say house paper story sound crazy scenario obviously nuts consider admittedly embellish effect current viral theory scientist medical doctor virologist currently believe take example novel sars cov2 virus prove point undefined illness call covid-19 aĵempt find virus sputum mind scientist describe virus locate aĵaches cell receptor inject genetic material covid case rna cell rna insert exploit cell reproduce make thousand nay million copy emerge victorious claim look scientific literature proof actual scientific proof uniform sars cov2 virus properly isolate sputum sick person actual spike protein see

virus properly isolate sputum sick person actual spike protein see protrude virus find find evidence exist look publish scientific literature actual picture proof spike protein viral protein attach receptor embed cell membrane find evidence exist look video document evidence

intact virus inject genetic material body cell reproduce emerge victorious bud cell membrane find evidence exist close thing find electron micrograph picture cellular particle possibly attach cell debris see stain heavy metal process completely distort architecture live organism like find bit paper stick blow brick prove paper emerge take piece brick way enders baloney cowan describe covid story believe paper story chart fantasy nobel prize winner call john enders 1897 1985 american biomedical scientist dub father modern vaccines enders claim discover process viral culture prove virus cause measles cowan explain enders exact procedure follow virologist find characterize new virus 1954 enders take throat swab child measles immerse 2ml milk penicillin 100u ml antibiotic streptomycin 50,g ml add mix centrifuge rotate high speed separate large cellular debris small particle molecule milk cream example cowan say aim find liĵle particle genetic material virus snot child measles thing mix snot material milk genetic material go know find come snot milk point streptomycin nephrotoxic poisonous kidney drug relevance shortly cowan say get bad bad enders describe culture medium virus grow culture medium consist bovine amniotic fluid 90 beef embryo extract 5 horse serum 5 antibiotic phenol red indicator cell metabolism cowan ask incredulously culture medium contain fluid tissue rich source genetic material genetic cocktail medium inoculate tissue cell rhesus monkey kidney tissue importance streptomycin come currently antimicrobial drug poisonous kidney modern viral culture e.g. gentamicin streptomycin amphotericin cowan ask go know witch brew genetic material come five different source rich genetic material mix remember say genetic material monkey kidney tissue bovine serum milk etc exact

genetic material monkey kidney tissue bovine serum milk etc exact component central question return possibly go know virus kill kidney tissue toxic antibiotic starvation ration grow tissue john enders answer question second agent obtain uninoculated culture monkey kidney cell cytopathic change death cell induce unstained preparation distinguish confidence virus isolate measles death cell cytopathic change happen exactly manner inoculate kidney tissue measles snot cowan say evidence destruction tissue proof viral causation illness cause snot

see destructive effect snot cytopathic i.e. cell kill change come process culture virus snot period enders quote 1957 paper virologist call ruckle report similar finding addition isolate agent monkey kidney tissue far indistinguishable human measles virus word cowan say particle call measles virus simply clearly breakdown product starve poison tissue measles virus virus include call covid virus enders father modern vaccines say potential risk employ culture primate cell production vaccine compose attenuate virus presence agent possibly latent primate tissue definitely exclude know method cowan quote paper publish journal viruses 2020 covid pandemic underway medium reality ev refer particle genetic debris tissue exosome moment remarkable resemblance ev virus cause problem study focus analysis ev release viral infection later paper add date reliable method actually guarantee complete separation ev virus exist publish time fairy tale virus claim total certainty cause fairy tale viral disease call covid-19 fairy tale way transform human society image cult work achieve long cowan conclude article summarize scientific evidence pathogenic virus exist think virus simply normal breakdown product dead die tissue cell few particle starve poison suffocate wear mask afraid engineer virus circulate make people sick people laboratory world make genetically modify product people sick call vaccine virome ecosystem virus virus 8 50 100 genetic material simply erroneous idea base misconception call virus covid load bollock background describe cowan lanka emphasise first video presentation

load bollock background describe cowan lanka emphasise first video presentation see dr andrew kaufman ask covid virus truth natural defence mechanism body call exosome release cell state toxicity theme return release profusely chemical radiation toxicity increase think potential effect 5 g destructive frequency infest human energetic information field gather pace 5 g go online wuhan 2019 virus emerge later exosome transmit warning rest body houston problem kaufman present image exosome compare covid electron microscope similarity remarkable aĵach cell receptor claim case covid contain genetic material form rna ribonucleic acid find viral cell culture damaged die cell james hildreth md president chief

executive officer meharry medical college johns hopkins

say virus fully exosome sense word kaufman conclusion virus entire pandemic completely manufacture crisis evidence die illness

dr tom cowan sally fallon morell author contagion myth publish statement dr kaufman february 2021 explain virus exist read appendix virus theory trace cell theory 1858 german physician rudolf virchow 1821 1920 contend disease originate single cell infiltrate virus dr stefan lanka say finding insight respect structure function central importance tissue creation life know 1858 comprehensively refute cell theory virchow ignore see later play john enders 1950 lanka note infection theory establish global dogma policy eugenic reich nazi germany creation sabbatian cult covid hoax lanka say 1933 scientist dare contradict theory aǧer 1933 critical scientist silence dr tom cowan view ill heath cause liĵle toxification chemical radiation contagion highlight major source virus theology man call father modern virology thomas milton rivers 1888 1962 way give cult long game policy coincidence father modern virology director rockefeller institute medical research 1937 1956 credit make rockefeller institute leader viral research cult rockefellers force creation big pharma medicine establish world health organisation 1948 long close association gates family run pandemic hoax mega rich cult gofer psychopath bill gates renegade mind bullshit ask question need answer take prevarication answer certainly hide truth fear speak renegade minds change world beĵer change maĵer bleak currently appear sequence deceit tell truth remember gainst background lay far sequence take invent virus cult own china late 2019 fascist transformation human society see understand new context tell deadly disease break wuhan world medium begin campaign coordinate behavioural psychologist shall terrify population unquestioning compliance show image chinese people collapse street happen west suppose condition early day allege case death fear register hysterical area medium expand common medium narrative world real story different tell chinese government cult big centre global operation say discover

new illness flu like pneumonia- type symptom city toxic air overwhelm flu like symptom pneumonia respiratory disease chinese scientist say

overwhelm flu like symptom pneumonia respiratory disease chinese scientist say new novel coronavirus call sars cov-2 cause disease label covid-19 evidence virus day isolate purifie genetic code establish beginning computer generate fiction story

chinese whistleblower say number death supresse new disease relate wuhan bio lab misdirect mainstream alternative medium cul de sacs obscure real truth virus chinese scientist take genetic material lung fluid people say find new disease material wide range content evidence virus reason explain chapter virus show exist b cause disease people diagnose symptom widespread wuhan polluted china pcr test detect infectious disease farce global scam sell rest world diagnose respiratory disease covid-19 symptom pcr test test virus flu miraculously disappear worldwide 2020 2021 redesignate covid-19 old flu flu

like symptom aĵributed flu like covid-19 time exception chinese response draconian lockdown fascism choose weapon respond west recommend cult own tedros cult own world health organization run cult own gates go accord plan chinese scientist china control cult own government compare contaminate rna lung-fluid material rna sequence say appear 80 percent identical sars cov-1 virus claim cause sars severe acute respiratory syndrome outbreak 2003 decree new virus relate call sars cov-2 problem assumption assumption factual science turn assumption repeat know match 80 percent meaningless dr kaufman make point 96 percent genetic correlation human chimpanzee genetic material chimpanzee family chinese authority claim low percentage 80 percent prove existence new coronavirus goodness sake human dna 60 percent similar banana feel sleepy entire covid hoax global psyop psychological operation program human mind believe fear complete fantasy crucial aspect appear happen italy stream daily image alleged catastrophe wuhan western mind world different culture

seĵing reaction happen family like intense mind doctor cult need western example push people edge choose italy major global location go roman empire italian covid crisis manufacture particular area call lombardy happen notorious toxic air respiratory disease wuhan china déjà vu hysterical medium tell horror story italians die covid drove lombardy hospital overrun tidal wave desperately ill people need treatment ağer strike deadly virus psychological turning point cult plan wow happen italy western mind conclude happen family point italian authority respond follow chinese blueprint vehemently recommend cult own world health organization impose fascistic lockdown

country viciously police help surveillance drone sweep street seek escape mass house arrest livelihood destroy psychology unravel way witness lockdown country crucial plan italy respond way set precedent suspend freedom impose fascism western liberal democracy emphasise animate video explanation davidicke.com post summer 2020 important cult expand chinese lockdown model west bare faced lie non symptomatic people transmit disease way lock population sick sick pull off. right time evidence cult operative gofer claim people symptom pass disease protect vulnerable like elderly people lockdown kill ten thousand first time healthy people tell isolate sick great majority people test positive symptom wrong trick possible test test month ağer animate video gates fund professor neil ferguson gates fund imperial college confirme right term naturally ferguson enter story shortly outrageously crazy computer model lead britain united states country follow chinese italian method response way follow cult script ferguson say sage uk government scientific advisory group control covid policy start want follow chinese lockdown model continue work pay wonder possibly ferguson word away europe away hell moronic arrogant people think appalling man ferguson say italy go national lockdown realise mimic china communist party state say away europe think italy realise garbage ferguson ferguson model play central role achieve coincidence course absolutely worry little head oops sorry mistake italian segment psyop job design different story emerge italian authority reveal 99 percent die covid-19 italy co morbidity illness health

problem end life centers disease control prevention cdc publish figure 94 percent americans die covid have medical condition average five potential cause death term death unproven virus 100 percent percent italy percent presumably die covid flu like symptom range possible cause conjunction test test virus fox news report

startling figure emerge county 410 422 death aĵribute covid-19 potentially deadly health condition italian national health institute say later average age people die covid-19 diagnosis italy 81 ninety percent 70 percent 90 term reason die 80 percent chronic disease half have include cardiovascular problem diabetes respiratory problem cancer phantom covid-19 say kill overwhelmingly old people hardly affect young old people continually die cause especially respiratory disease re- diagnose covid-19 young people die tiny number comparison rarely respiratory disease old people die covid die thing redesignate covid simple flu fly blueprint place illusory case test test virus redesignate cause death covid-19 instant pandemic computer generate fiction near billion people have flu like symptom year potential limitless flu quickly apparently miraculously disappear worldwide diagnose covid-19 painfully bloody obvious explain away childlike medium headline like uk independent single case flu detect public health england year covid restriction suppress virus kid masking social distancing house arrest covid virus disappear flu virus bad article bloke call samuel loveĵ suggest maybe masking sanitising covid measure continue flu away ridiculousness disturb breathing covid-19 say loveĵ write widespread social distancing mask wear measure place uk usual route transmission influenza block absolutely evidence support statement look consequence acknowledge obvious flu disappear relabelle covid-19 contemplate covid hoax scale hard imagine need gut commitment truth clearly samuel loveĵ abundance get editor ten thousand die united states winter flu include pneumonia complication cdc figure record 45 million americans diagnose flu 2017 2018 61,000 die report claim 80,000 hysteria see covid-19 250,000 americans admiĵe hospital pneumonia year 50,000 case prove fatal 65 million suffer respiratory disease year million death make big cause death worldwide redesignate portion people covid-19 instant

global pandemic appearance doctor tell dare refuse obey doctor general research knowledge instead direct unquestioned authority career authority diagnose symptom covid-19 flu

dark suit covid-19 death certificate maĵer cause death doctor renegade minds fall illusion doctor medical staff highly intelligent highly principled seeker medical truth majority repeater gofer yes sir sir purveyor system demand purvey covid con merely confine disease lung instruction doctor covid-19 death certificate die 28 day positive test test virus open floodgate term die covid covid coin cover truth add death number aĵributed deadly virus compile national government globally gates fund johns hopkins operation united states involved pandemic simulation fraudulent death add ever- grow list fraudulent case false positive false test wonder professor walter ricciardi scientific advisor italian minister health say ağer lombardy hysteria job covid death rate italy have second old population world hospital record death way code death country generous sense people die hospital coronavirus deem die coronavirus evaluation national institute health 12 cent death certificate show direct causality coronavirus 88 cent patient die pre morbidity extraordinary consider propaganda campaign use italy terrify world percent genuine virus show exist code computer program diagnosis come test test china soon world covid-19

italy redesignation diagnosis lie corruption real pandemic fuel pathetically compliant medical system take order tiny national hierarchy answer world health organization answer gates cult doctor tell order diagnose particular set symptom covid-19 death certificate cause death patient test positive test test virus covid symptom like flu united states introduce big financial incentive manipulate figure hospital receive £ 4,600 medicare system diagnose regular pneumonia $ 13,000 diagnosis symptom covid-19 pneumonia $ 39 000 covid diagnose patient ventilator certainly kill painfully pathetically medical whistleblower reveal cult own youtube delete video instruct let patient crash straight ventilator instead go series far intrusive dangerous method pandemic hoax begin financial incentive kick talk cold blooded murder

give ventilator damaging respiratory system usually step heaven await renegade mind fall belief people white coat angel mercy psychopath explain detail answer describe play world coordinate world health organization medical hierarchy country medical scientist call information non existence virus begin emerge late march 2020 mushroom ağer send email sir julian rose writer researcher organic farming promotor medical scientist friend united states early stage march scientist able explain covid hoax manipulate say reliable test specific covid-19 virus reliable agency medium outlet report number actual covid-19 case see long period absolutely right action reaction covid-19 base totally flawed datum simply accurate assessment say people diagnose covid-19 show cold flu like symptom coronavirus strain cold/flu like symptom farcical situation like 84 year old german man test positive covid-19 nursing home order quarantine find common cold scientist describe pcr test call mickey mouse test kit useless claim identify idea kit isolate specific virus like covid-19 nonsense say significantly point want create totally false panic totally false pandemic pick coronavirus exactly cult own gates world economic forum johns hopkins university event 201 simulation follow real life simulation call pandemic scientist say select sick people

real life simulation call pandemic scientist say select sick people respiratory type disease single location wuhan administer pcr test claim show viral sequence similar coronavirus inevitably suffere select sick flu case fairly high proportion sample die new virus cfr case fatality rate high flu use infuse concern test course produce case expand testing produce case long pandemic use simple test kit trick convert bad flu pneumonia case new actually exist say run scam country sure fear message run high people feel panicky able think critically problem overcome fact actual new deadly pathogen regular sick people mean death new deadly pathogen go way low real new deadly virus pandemic say overcome following way happen 1 claim beginning death imminent underpin fantasy computer projection use excuse quarantine claim quarantine prevent expect million dead 2 people minimize danger irresponsible bully talk number 3 talk crap number hope blind people pseudoscience 4 start test people course

likely shred coronavirus rna inflate case figure asymptomatic carrier course spin sound deadly virologist know symptom case deadly pathogen scientist say simple step entirely manufacture pandemic run week analysis early hoax brilliantly prophetic actually unfold pull information recent chapter simple 1 2 3 delude virtually entire human population believe virus exist covid case test positive test test virus covid death die cause 28 day long test positive test test asymptomatic mean wrong claim pass justify lock quarantine healthy people totality foundation hoax simple study involve million people wuhan publish november 2020 demolish lie symptom pass virus find 300 asymptomatic case trace contact find detect virus asymptomatic patient contact isolate week change know crap go claim symptom transmit virus produce evidence world health organization official dr maria van kerkhove head emerge disease zoonosis unit say early june 2020 doubt validity asymptomatic transmission say datum rare asymptomatic person actually transmit

validity asymptomatic transmission say datum rare asymptomatic person actually transmit onward secondary individual rare mean cite case asymptomatic transmission ferguson factor problem cult head march 2020 script lockdown start despite manipulation case death figure people allege die covid justify mass house arrest overcome way scientist describe claim beginning death imminent use excuse quarantine claim quarantine prevent expect million dead enter professor neil ferguson gates fund epidemiologist gates fund imperial college london ferguson britain christian drosten dire record predict health outcome call advise government health outcome crisis come strange ridiculous thing turn policy guidance people history monumentally wrong ah make sense cult point view expert produce prediction suit cult agenda societal transformation neil ferguson reveal horrific clearly insane computer model prediction allow lockdown impose britain united states country ferguson level biology appear formal training computer modelling medicine epidemiology accord derek winton msc computational intelligence

write article somewhat aghast ferguson include take account respiratory disease seasonality mean far bad winter month think respiratory disease bad winter certainly massively china connect imperial college bizarre professor provide excuse long incubate chinese model human control travel westward lightning speed imperial college confirm website collaborate chinese research institute publish 600 research paper year chinese research institution 225 chinese staff 2,600 chinese student big international group 7,000 student live china large group outside uk select tour china president xi jinping state visit uk 2015 college take major donation china describe uk number university collaborator chinese research institution china communist fascist government appear phased woeful prediction ferguson imperial lockdown ferguson induce college sign five year collaboration deal china tech giant huawei huawei indoor 5 g network equipment instal college west london tech campus ai cloud platform deal include chinese sponsorship imperial venture catalyst entrepreneurship competition imperial example enormous influence chinese government british

north american university research centre afield 200 academic dozen uk university investigate suspicion unintentionally help chinese government build weapon mass destruction transfer world lead research advanced military technology aircraǧ missile design cyberweapon similar scandal break united states coincidence imperial college serve agenda way include promotion aspect united nations agenda 21/2030 great reset produce computer model human cause climate change happen real world imperial college drive climate agenda drive covid agenda cult hoax patrick vallance uk government chief scientific adviser covid name chief scientific adviser un climate change conference know cop26 host government glasgow scotland covid climate fundamentally connect imperial bosom come neil ferguson advise government despite previous disaster announce early key people like uk chief medical adviser chris whiĵy catch virus propaganda story sell manage survive prime minister boris johnson admiĵe hospital say severe version virus period policy demeanour change return downing street small world government advisor especially communal connection gates ferguson partner whiĵy

write paper call infectious disease tough choice reduce ebola transmission involve scare story happen ferguson model predict to150 000 die mad cow disease bse version sheep transmiĵe human bse transmiĵe instead trigger organophosphate pesticide treat pest cow few 200 death follow human form model ferguson fellow incompetent lead unnecessary culling million pig caĵle sheep foot mouth outbreak 2001 destroy life livelihood farmer family oğen spend decade build herd flock vast number animal foot mouth contact infection expert cull professor roy anderson computer modeller imperial college specialise epidemiology human animal disease anderson serve bill melinda gates grand challenges global health advisory board chair gates fund organisation gates precursor covid script ferguson back close school prolonged period swine flu pandemic 2009 say affect world population continue spread speed claim happen mate imperial college say news report say author epidemiologist disease modeller neil ferguson sit world health organisation emergency

epidemiologist disease modeller neil ferguson sit world health organisation emergency commiĵee outbreak say virus pandemic

potential professor liam donaldson chris whiĵy day chief medical officer say bad case 30 percent british people infect swine flu 65,000 die ferguson donaldson prove correct end year number death aĵribute swine flu 392 term expert liberally apply unfortunately complete idiot swine flu projection

great glaxosmithkline gsk million roll pandemrix influenza vaccine lead brain damage child affected british government taxpayer pay £ 60 million compensation ağer gsk give immunity prosecution covid déjà vu swine flu suppose break mexico dr wolfgang wodarg german doctor member parliament critic covid hoax observe spread swine flu mexico city time say experience mexico city mild flu kill usual kill few people usual hype fear fact unique covid happen time ferguson report estimate project death toll bird flu h5n1 million fold bird flu vaccine maker

killing scare background neil ferguson produce perfectly time computer model early 2020 predict half million people die britain draconian lockdown 2.2 million united states politician panic people panic lockdown allege short duration instigate flaĵen curve case glean test test virus say time public forget short duration bit agenda destroy livelihood population force mass control dependency go short american researcher daniel horowitz describe consequence model spew gates fund ferguson imperial lead government government country panic single imperial college uk study fund global warming activist predict 2.2 million death lock country addition reported 8 9 death rate italy scare think mutation virus get come fact finally test ability actually report new case think head death spiral flatten curve know curve start start give want investigation german news outlet welt sonntag world sunday reveal march 2020 german government gather leading scientist research institute university produce model paper serve legitimization tough political measure cult agenda justifie computer modelling base evidence reality specifically construct justify cult demand lockdown world destroy independent livelihood global population modeller responsible covid hoax date trial like nuremberg ağer world war nazis face consequence war crime corrupt- belief modeller write paper accord government instruction say lockdown measure liğe million germans die covid-19 add die agonizingly home gasp breath unable treat hospital cope lie maĵer give cult

gasp breath unable treat hospital cope lie maĵer give cult want long time government modeller neil ferguson uk united states lockdown half million die britain 2.2 million americans theme modeller crucial lockdown strategy look background follow money researcher rosemary frei produce excellent article headline modelling paper mafiosi highlight guy call john edmunds

british epidemiologist professor faculty epidemiology population health london school hygiene tropical medicine study imperial college edmunds member government covid advisory body dictate policy new emerging respiratory virus threats advisory group nervtag

scientific advisory group ferguson member nervtag sage lead way original virus edmunds follow variant stage especially call uk kent variant know variant concern voc b.1.1.7 say co wriĵen report centre mathematical modelling infectious diseases london school hygiene tropical medicine input centre covid-19 working group realistic possibility voc b.1.1.7 associate increase risk death compare non voc virus fear fear fear vaccine fear fear fear vaccine rosemary frei reveal paper author member modelling centre covid-19 working group receive funding bill melinda gates foundation and/or associate gates fund wellcome trust paper publish e journal medr χiv publish paper peer review journal establish organisation head facebook mark zuckerberg missus small world frei discover edmunds scientific advisory board coalition epidemic preparedness innovations cepi establish bill melinda gates foundation klaus schwab davos world economic forum big pharma giant wellcome cepi launch davos 2017 develop vaccine stop future epidemic accord website mission accelerate development vaccine emerge infectious disease enable equitable access vaccine people outbreak kind people rosemary frei reveal public health england phe director susan hopkins author organisation non peer reviewed report new variant hopkins professor infectious disease london imperial college giğe ten million dollar year bill melinda gates foundation gates fund modelling disaster neil ferguson co author public health england report speak december 2020 potential danger b.1.1.7 uk variant promote gates fund modeller john edmunds come covid vaccine new variant show bollock people modeller lockdown obsess way demand cult demand

edmunds say january 2021 ease lockdown soon disaster vaccinate widely elderly rosemary frei highlight edmunds marry jeanne pimenta describe linkedin profile director epidemiology glaxosmithkline gsk hold share company patrick vallance co chair sage government chief scientific adviser executive gsk deferred bonus share company worth £ 600,000 gsk business connection bill gates collaborate mrna-'vaccine company curevac vaccine new variant edmunds talk gsk plan covid vaccine drug giant sanofi. puppet prime minister boris johnson announce spring 2021 60 million vaccine dose gsk facility barnard castle english north east

barnard castle population 6,000 famously visit breach lockdown rule april 2020 johnson aide dominic cummings say drive test eyesight drive london cummings beĵer advise test integrity long gsk facility visit sure patrick vallance happy arrange introduction tea biscuit ruthless psychopath gates fortune vaccine collaboration big pharma company gush phenomenal profit vaccine 20 to-1 return tell interviewer gates tweet december 2019 foreknowledge come foundation particularly excited year mean good buy global health vaccine modeller john edmunds big promotor vaccine people appear dean london school hygiene tropical medicine faculty epidemiology population health primarily fund bill melinda gates foundation gates establish fund gavi vaccine alliance gates vehicle vaccinate world organisation doctors borders describe gavi aim support drug industry desire promote new product finde efficient

sustainable mean fighte disease poverty psychopath gates create john edmunds say video london school hygiene tropical medicine involve aspect vaccine development include large scale clinical trial contend mathematical modelling vaccine protect individual society basis shit shit edmunds serve uk vaccine network ferguson government foremost covid adviser grim-faced dark eyed chris whiĵy vaccine network say work support government identify shortlist target investment opportunity promising vaccine vaccine technology help combat infectious disease epidemic potential address structural issue relate uk broad vaccine infrastructure ferguson act director imperial college vaccine impact modelling consortium funding bill melina gates foundation gates create gavi vaccine alliance wonder character vaccine answer problem ferguson wildly enthusiastic support gavi campaign vaccine child en masse poor country expect like gates constantly talk need reduce population want fund vaccine people alive sure john edmunds london school hygiene tropical medicine lshtm vaccines manufacturing innovation centre develop test commercialise vaccine rosemary frei write vaccine centre perform affiliated activity like combat vaccine hesitancy include vaccine confidence project project state purpose thing provide analysis guidance early response engagement public ensure sustained confidence vaccine immunisation vaccine confidence

project director lshtm professor heidi larson decade research combat vaccine hesitancy bloody hell bloke like john edmunds neil ferguson connection financial tie model virus case death projection government especially way give paymaster like gates exactly want insane find world covid dangerous oops wait yes day ferguson nightmare scenario jackboot johnson britain china style lockdown save deadly virus uk government website gov.uk report different ferguson page official government guidance high consequence infectious disease hcid say covid-19 19 march 2020 covid-19 long consider high consequence infectious disease hcid uk emphasis 4 nation public health hcid group interim recommendation january 2020 classify covid-19 hcid base consideration uk hcid criterion virus disease information available early stage outbreak know covid-19

public health body uk review date information covid-19 uk hcid criterion determine feature change particular information available mortality rate low overall great clinical awareness specific sensitive laboratory test availability continue increase advisory committee dangerous pathogens acdp opinion covid-19 long classify hcid soon ağer government expose downgrade risk upgrade singe cult hymn book ferguson fellow gates clone indicate lockdown restriction continue gates fund vaccine develop gates say ferguson like repeat gates script cult script flaĵen curve ongoing nightmare continue lockdown period severe restriction pursuit destroy independent income protect health cult give shit ferguson push vaccine solution own vaccine obsessive gates make fortune ferguson head vaccine impact modelling consortium imperial college fund gates foundation gavi vaccine alliance create gates personal vaccine promotion operation compound human catastrophe ferguson model create later expose break lockdown rule have sexual liaison married girlfriend antonia staats home live location husband child staats climate activist senior campaigner soros fund avaaz trust tell grass green ferguson resign government advisor hypocrisy 2020 ağer period quiet quote ridiculous medium need lockdown vaccine rollout government advise scientist imperial college hold fort absence say lockdown indefinite vaccine find cult script sing payrolle choir say intention go normal vaccine

come vaccine different agenda discuss human 2.0 cult want let world normal destroy normal forever point happen house arrest close business school lockdown un)social distancing mask follow ferguson fantasy model predict people predictable vaccine arrive tell house arrest lockdown un)social distancing mask continue deal mask chapter fundamental pandemic mildly depth assessment figure reveal go cult fund control organisation genuine people work number involve genevieve briand assistant program director applied economics master degree program johns hopkins university analyse impact covid-19 death cause united states official datum cdc period early february early september 2020

find allegedly covid relate death exceed heart disease find strange heart disease big cause fatality research significant note sudden decline 2020 non-'covid death trend completely contrary paĵern observe previous year total decrease death cause exactly equal increase death covid-19 game set match term happen johns hopkins university delete article ground support false dangerous inaccuracy impact pandemic expose scam official cdc figure confirme figure publish january 2021 effect people die heart aĵack cancer road accident gunshot wound have covid-19 death certificate diagnose symptom test positive test test virus kid gunshot wound way brenda bock coroner grand county colorado reveal gunshot victim test positive virus previous 30 day classifie covid death bock say people test positive covid kill gunshot wound kill say finishe investigation state list gunshot victim death virus death case figure covid-19 absolute joke repeat like parrot medium politician allege medical expert official cult narrative town genevieve briand find death cause exceptional 2020 compare previous year spanish magazine publish figure say spain covid propaganda hotspot point discovery salud health medicine magazine quote government figure show 17,000 few people die spain 2020 2019 26,000 few 2018 age standardise mortality rate england wales age distribution take account significantly low 2020 1970 80 90 ninth high 2000 post mortem autopsy virtually disappear covid death amid claim virus infect bodily fluid pose risk carry autopsy reject renowned german pathologist forensic doctor klaus püschel say staff 150 autopsy covid patient problem

say need know covid patient suffere blood clot severe respiratory infection virus ağer call sars severe acute respiratory syndrome highlight spring 2020 phenomenon quote new york intensive care doctor cameron kyle sidell post soon delete youtube video tell prepare treat infectious disease call covid-19 deal instead liken lung condition severely ill patient expect cabin depressurisation plane 30,000 foot drop everest oxygen acclimatisation say happen

depressurisation plane 30,000 foot drop everest oxygen acclimatisation say happen small minority alleged covid patient say cause phantom contagious virus kyle sidell say covid-19 disease tell come way operate medical paradigm untrue say believe treat wrong disease people slowly starve oxygen patient off oxygen mask state fear stress blue face brink death look like patient die pneumonia want autopsy virus exist condition people wish uncover add 5 g system millimetre wave rapidly introduce world 2020 fire 5 g earth satellite 60 gigahertz 5 g range frequency interact oxygen molecule stop people breathe sufficient oxygen absorb bloodstream instal 5 g school hospital world mad 5 g cause major change

lung blood detail answer consequence label covid- 19 alleged symptom cause 5 g electromagnetic frequency cell respond radiation poisoning covid death scam dr scoĵ jensen minnesota state senator medical doctor expose covid medicare payment incentive hospital death certificate manipulation say send seven page document department health coach fill death certificate happen document say need laboratory test covid-19 death certificate shock death certificate suppose fact jensen describe doctor encourage pressure diagnosis covid-19 think probable presume positive test necessary maĵere say doctor tell diagnose covid symptom cold allergy respiratory problem certainly influenza disappear covid era common sniffle dreaded verdict ontario authority decree single care home resident symptom long list lead isolation entire home courageous doctor like jensen point death figure manipulation death cause fall covid-19 death rise rate diagnosis video rarely survive long youtube cult support algorithm courtesy ceo susan wojcicki boss google figure tampering glaring

ubiquitous official leĵe slip outright say uk chief scientific adviser patrick vallance say occasion covid death certificate mean covid cause death hell rare sight bbc reporter tell truth say successfully treat covid april discharge june run bus die person count covid death england bbc rest world medium go repeat case death figure real illinois public health director dr ngozi ezike reveal deceit boss clench buĵock hospice give week live find covid count covid death clear alternate cause list covid death list covid death mean cause death covid time death yes covid virus show exist test test test virus first period pandemic hoax spring 2020 process begin designate covid death continue sit restaurant night listen loud conversation table family discuss bewilderment relative symptom covid die long term problem diagnose death virus understand bewilderment read book know medical fraud perpetrate world medium truth shock medium ignore evidence death certificate fraud eventually columnist speak see first hand bel mooney

long time national newspaper journalist britain currently work daily mail article february 19th 2021 carry headline dad ted pass covid test die chronic illness officially britain 120,000 victim virus far tell 99 year old father care home long stand chronic obstructive pulmonary disease vascular dementia maybe aware tell start virus refuse vaccine reason death unexpected give chronic health problem mooney say shocked find covid-19 declare cause death death certificate say bizarre unacceptable untruth man long time health problem test negative twice home virus shock story say highlight death certificate manipulation month confirmation professional time journalist realise go affecte directly know dad test positive negative irrelevant test test virus say believe conspiracy theory know sure conspiracy theorist term widespread circulation cia 1960 discredit accept ridiculous official story kennedy assassination blanket statement believe conspiracy theory bizarre dictionary definition term mean world drown conspiracy say daĝ dad affecte covid conspiracy think covid-19 go death certificate people die fair see personal experience happen mince word mooney call care home morning february 9th tell father die sleep ask official cause death come covid-19 mooney challenge tell

death covid dementia floor confirme test test virus consider reasonable assume doctor mooney rightly protest assumption diagnosis say blame perfectly decent death death certificate criminal offence bring account million job follow order wash new nuremberg trial first one mooney doctor assume presume tell follow order make difference action doctor job serve patient truth follow order world play central make covid hoax possible catastrophic consequence humanity shame answer action mooney say disquiet worsen register father death telephone tell registrar case like deceased test positive covid record cause death test maĵer involve level think maĵer show callous disregard accurate diagnosis pressure come national health pyramid turn obey world health organization obey gates cult mooney say registrar agree distort national figure add

gates cult mooney say registrar agree distort national figure add strange thing winter record countless death flu winter ask registrar think death flu misdiagnose lump covid death answer puzzled yes mooney say funeral director say covid death covid lose count number family upset funeral company different country experience mooney write nightly shroud wave shocking close up pain impose tv news bewilder terrify population eager compliance lockdown invite save nhs grieve stranger real life love one shocking death count public imagine fear way covid-19 death statistic compile number great oh liĵle bit like 100 percent math mooney ask country wish skew mortality figure wrongly certify death go believe conspiracy find answer conspiracy describe discover national scandal reality global scandal happen pillar conspiracy place buĵon press drosten pcr protocol high amplification produce case death certificate change secure illusory covid death mooney note normally doctor need certify death have know patient rule change spring 2020 allow doctor period covid death decree case covid-19 death certificate positive test symptom mooney ask 30,851 january 15 care home resident death covid-19 certificate 32.4 cent death far base assumption like father national psyche?'all answer first question devastate dismantle national psyche actually global psyche colossal scale uk case death data compile organisation like public health england phe office national

statistics ons mooney highlight insane policy count death cause covid-19 happen 28 day positive test test test virus point ons statistic reflect death involve covid covid mean practice death covid-19 mention death certificate describe consequence fraud people accept narrative feed panicky government europe witness harsh measure enact totalitarian china jump lockdown headline covid death toll like knell

bring doomsday fear stalk street politician parrot frankly ridiculous aim zero covid shut economy british people agree lockdown essential astonishingly patriotic brit want restriction lie death certificate mind grim toll life ruin suicide school close rise inequality depression cancel hospital treatment cancer patient torture waiting poverty economic devastation loneliness family keep apart life lose direct result lockdown say join national chorus shock horror reach 120,000 death toll surely certain totally skew human cost lockdown justifie death figure british medical journal report 1,493 percent increase case child take great ormond street hospital abusive head injury effect family shocking thing family keep apart obey irrational change rule whim government believe statistic succumb fear generation reject war fight freedom dad god rest soul angry i. theme watch winter month death cause focus covid death summer british lung foundation say respiratory disease plummet 80 percent rage case way fascism population answer nazi eugenic 21st century elderly people care home isolate family month ağer lonely month contact relative grandchild ban see tell lockdown fascism protect vulnerable like elderly people time resuscitate dnr order place medical file need resuscitation covid-19 go death certificate old people protect cull murder truth dnr order decree disabled young people learning difficultie psychological problem uk care quality commission non departmental body department health social care find 34 percent work health social care pressure place aĵempt cardiopulmonary resuscitation order covid patient suffere disability learning difficultie involve patient family decision uk judge rule elderly woman dementia dna manipulate covid vaccine son wish man severe learning difficultie jab despite family objection mind die judiciary support doctor government fascist dictatorship

dare horrific video post show fascist officer los angeles police forcibly give covid shot woman special need scream want fascist see give jab sleep elderly woman care home straight nazi playbook hitler nazis commiĵe

mass murder mentally ill physically disabled germany occupy territory programme know aktion t4 t4 sabbatian control hitler grotesque crazy set kill consider useless unnecessary reich commiĵee scientific registering hereditary congenital illnesses register birth baby identifie physician defect 1941 5,000 child murder state estimate total number innocent people kill aktion t4 275,000 300,000 parent tell child send away special treatment return pathetic claim plan new extermination camp dismiss today force current event precisely 80 year ago margaret sanger cult operative birth control sanitise programme eugenic organisation found planned parenthood sanger propose dysgenic population choice segregation sterilization include epileptic feeble- minded prostitute sanger oppose charity perpetuate human waste reveal cult mentality

think extermination camp conspiracy theory naivety touching breathtakingly stupid believe doctor act callous disregard patient worth consider doctor medical staff agree government decree dnr order medical file resuscitation call know people house nazis josef mengele school medicine phenomenal number old people die worldwide effect lockdown depression lack treatment vaccine later lose live common response start manufactured pandemic remove old people hospital bed transfer nursing home decision result mass cull elderly people home lack treatment covid care home whistleblower tell covid era begin doctor come home treat patient beg drug like antibiotic oğen come infamous example order new york governor andrew cuomo brother moronic cnn host amazingly give emmy award handling covid crisis ridiculous woker hand ridiculous see february 2021 department justice fbi investigation begin thousand old people new york die nursing home ağer discharge hospital way covid patient cuomo staff cover fact happen nice psychopath covid spin report say thousand old people test positive

covid hospital transfer nursing home die covid transmit hospital ill fact test positive test test virus irrelevant ill oğen respiratory disease ubiquitous old people near end life transfer hospital mean treatment stop die old give damn expose book decade cult plan cull world old people introduce point demise pill certain age law march 2021 spain legalise euthanasia assist suicide follow netherlands belgium luxembourg canada tiptoe demise pill treatment old people care home disgrace covid era caring staff know legion story callous treatment old people family police call family come love one home light isolation kill prisoner state care home resident insane fascist ontario canada allow leave room covid hoax begin uk staff wheel elderly people away window family member talk oriana criscuolo stockport english north west drop off thing

80 year old father parkinson disease dementia want wave ground-floor window tell illegal go close curtain middle day oriana unbelievable understand care home staff people pay care uncaring behaviour inhumane cruel belief right off. way end life

loveless circumstance uk register nurse nicky millen proper old school nurse 40 year say start career care base dignity choice compassion empathy say thing important go window appalled people die love one say goodbye ipad nicky describe distressed 89 year old lady stroke face ask paracetamol finish off life long worth live see family nicky say humiliate ward staff patient leĵe lady stroke face give cuddle dehumanisation covid hoax bring surface nicky work care home patient tell hold prisoner want live die say lady tear see great grandson nicky compassionate old school meeting psychopathic new normal say work covid ward covid patient jewish writer shai held write article march 2020 headline staggering heartless cruelty elderly describe happen early day lockdown say elderly consider group unique individual way woke shai held say notice familiar rhetoric dehumanization work elderly bunch faceless mass consider culprit effectively deserving suffering pandemic inflict lose entirely fact elderly individual human being distinctive face voice hope dream memory regret friendship marriage

love lose love sustain elderly dehumanised group go result cold disregard right life distinctive face held talk design delete mask faceless war zone hospital myth medical professional tell go hospital overrun like war zone accord medium virtually mantra medical whistleblower use career citizen journalist world sneak hospital film evidence expose war zone lie largely close ward operating theatre meet hospital worker town isle wight first lockdown 2020 say island hospital quiet lockdown justifie psychopath stop hospital overrun time island hospital near military arrive provide extra bed propaganda ramp fear ensure compliance fascism temporary hospital thousand bed know nightingales shiğ mortuary open criminal uk government man help install extra island bed aĵributed army say hospital doctor nurse stand talk mask social distancing accuse useless local island paper county press pump fear hospital overrun describe ambulance park crew outside

press pump fear hospital overrun describe ambulance park crew outside deck chair brother call ambulance tell two- hour backlog call bullshit old lady island fall bad way caller ring ambulance tell situation urgent ambulance station work capacity people hear ambulance siren blare drive street live near station realise go follow leğ circulate urban area siren go come stop increase level fear go ventilator shortage crisis cost ten million hastily produce ventilator ambulance crew agree exploit way fear propaganda find mirror wish hospital obvious consequence treatment diagnosis non-'covid condition cancel involve hand death sentence people die home undiagnosed untreated cancer heart disease life- threaten condition allow hospital deal pandemic happen death innocent war zone lay off nursing staff doctor work lockdown justifie save life protect vulnerable actually kill dnr order prevent hospital overrun britain mantra stay home save nhs world story sell lie california doctor dan erickson artin massihi accelerated urgent care bakersfield hold news conference april 2020 intensive care unit california essentially hospital shuĵe floor treat patient lay off doctor california health system work minimum capacity geĵe rid doctor volume say people condition heart disease cancer come hospital fear covid- 19 video delete susan wojcicki cult own youtube ağer reach

five million view

florida governor ron desantis reject severe lockdown state governor give model claim run hospital bed day go happen modeller know deceit find level system urgent child operation cancel include fracture repair biopsy spot cancer eric nicholls consultant paediatrician say obviously concerning need return normal operating increase capacity soon possible psychopath power concerned psychopath deletion urgent care diagnosis happen world kid die result action cold heartless lunatic dictate health policy number stratospheric richard sullivan professor cancer global health king college london say people fear covid cancer campaign fear year lose life dramatic sullivan say huge avoidable mortality sarah woolnough executive director policy cancer research uk say 75 percent drop urgent referral hospital family doctor people suspect cancer sullivan say lot service scale see dramatic decrease elective cancer surgery lockdown death worldwide absolutely fantastic new york post report datum confirme lockdown end life save sharp decline visit emergency room increase fatal heart attack patient receive prompt treatment few people screen cancer social isolation contribute excess death dementia alzheimer researcher predict social economic upheaval lead ten thousand death despair drug overdose alcoholism suicide unemployment surge mental health substance abuse treatment program interrupt report level anxiety depression suicidal thought increase dramatically alcohol sale fatal drug overdose happen nurse staff time hand war zone tic tok dancing video begin appear internet medical staff dance ward corridor people die home cause normally treat hospital mention dispatch brave truth commije whistleblower louise hampton handler uk nhs viral internet video say fuck pandemic load bollock say covid-19 rebrande flu course lose job happen medical endless profession tell truth

louise filme inside war zone accident emergency department mean mainstream medium blow gaff conspiracy eternal shame journalist capable manifest shame psychopath slavishly repeat question relative admije health problem leğ die love one allow covid rule include kid die

comfort mum dad bedside evil damn good fun scoĵish nhs staff nurse publicly quit spring 2021 say long lie corruption government say hospital bed bed shut ward shut hospital busy covid staff nurse say nicola sturgeon tragically leader scoĵish government television say save hospital nhs bed see flu flu year write government speak union unison union cult compromise useless change colleague scared lose job speak want say nursing staff affected wear mask day head splĵe shiğ wear mask nhs fascist tyranny dismantle start human being charge ironically hospital report busy official covid case fall spring summer 2021 condition require treatment time fake vaccine rollout cover covid vaccine scam detail later indicator sickening disregard human life highlight dna manipulate concoction fulfil definition vaccine human give emergency approval trial complete continue unknowing public result

nhs senior nurse responsibility vaccine procedure say genocide say vaccine vaccine show safe claim effectiveness drug company poetic licence describe happen horrid act human annihilation nurse say management instigate policy provide patient information leaflet pil people vaccinate health care professional suppose accord protocol patient tell take ongoing clinical trial challenge happen see exclude meeting ridicule say tell watch step find surplus requirement nurse speak anonymously fear career say ask nhs manager content take genocide have vaccine reply play shut government lean heavily nhs management clearly lean heavily staff. global medical hierarchy operate start cult world health tell story doctor pfizer jab question idea doctor read literature stop treat doctor intellectual giant moral medical pygmy doctor know vaccine fully approve trial ongoing ask patient mind take follow up research purpose yes ongoing clinical trial nurse say doctor ignorance rare speak hospital consultant jab idea background trial complete nurse pharmacist show ignorance nhs colleague forsake duty care break code conduct hippocratic oath brainwash majority uk public propaganda say able recruit single nhs colleague doctor nurse pharmacist stand speak union refuse help say genocide come light hesitate evidence nuremberg type trial power affecte outcome nonsense perspective let virus exist let completely crazy accept official manipulate

figure case death accurate study stanford university epidemiologist dr john ioannidis publish world health organization website produce average infection fatality rate 0.23 percent ioannidis say sample equally location globally median infection fatality rate substantially low 0.23 observe analysis healthy people 70 0.05 percent compare 3.4 percent claim cult own world health organization hoax first play maximum fear need generate update stanford study april 2021 infection fatality rate 0.15 percent team scientist lead megan o'driscoll henrik salje study datum 45 country publish finding nature website

child young people figure small virtually register authority hype danger young introduce dna-manipulate vaccine child o'driscoll study produce average infection fatality figure 0.003 child birth 0.001 5 14 0.003 15 19 0.456 64 claim child vaccinate protect covid obvious lie reason average age covid death akin average age people die general average age death england 80 man 83 woman average age death allege covid 82 83 california doctor dan erickson artin massihi say april medium conference projection model million death woefully inaccurate produce detailed figure show californians 0.03 chance die covid base number people test positive test test virus erickson say 0.1 percent chance die covid state new york city 0.05 percent chance spain centre covid-19 hysteria stage stanford study support doctor datum fatality rate estimate 0.23 0.15 percent close figure estimate zero death rate figure claim world health organization start hoax 15 time high california doctor say justification lockdown economic devastation cause learn quarantine quarantine sick healthy see medical light government medical system world billion house arrest lose livelihood case lose mind health life force people wear mask dangerous health psychology human interaction family interaction criminal offence ban travel close restaurant bar watch live sport concert theatre activity involve human togetherness discourse close school isolate child friend cause commit suicide act hopelessness despair california doctor say lockdown consequence include increase child abuse partner abuse alcoholism depression impact see day entire human race mentally ill psychopath unimaginable extreme like bill gates face reality deal come denial fascism

tyranny possible target population submiĵe acquiesce fascism tyranny human history show true people naively unquestioning believe tell deadly virus meekly weakly submiĵe house arrest believe total submiĵe fear draconian fine impose brutal policing psychopath psychopath condemnation meek weak condemn pushbackers behalf force gunsight pathetic begin suffice britain brainless health secretary maĵ hancock

warn lie border official return list hotspot country face jail sentence year racially aggravate assault incest aĵempte sex child 13 hancock lunatic state apparatus cult lead chain reaction uk vaccine minister nadhim zahawi prominent member mega cult secret society le cercle feature early book cult enforce government medical system government medical system enforce business police business enforce staff enforce customer police enforce cult population play essential create world fascist control child grandchild live entire life hierarchical pyramid imposition acquiescence yes indeedy clinical insanity bright read book ask answer think reveal few syllable tell psycho moronic lackey fuck off let life war mind believe thing condition believe aldous huxley brave new world describe covid hoax psyop true sense level accordance definition term psychological warfare break covid pandemic foundation theme psychological warfare human individual collective mind say entire human belief system involve subject imagine huxley right contention people believe condition believe come repetition life falsehood spew government corporation medium endless stream expert tell cult want believe oğen believe far expert reward prestigious job title agent perceptual programming regular access medium cult control narrative control information lose control vital crucial prevail public perception reality foundation control today internet possible defense advanced research projects agency darpa incredibly sinister technological arm pentagon internet result military technology darpa openly brag establish internet long term project lasso mind global population say decade plan control information extreme eventually hear cult approve close end ferocious censorship covid hoax begin case start 1990 term book speaking venue create publishing company 1995 precisely publish book think secure total control information need

internet pre programmed algorithm seek unclean content deletion stop post first place cult dismantle print non internet broadcast medium ensure transfer information appropriate name web critical expression cult web see quicken demise traditional medium control leğ tiny number corporation operate

quicken demise traditional medium control leğ tiny number corporation operate worldwide independent journalism mainstream dead obvious turn 2020 cult want information communicate internet globally censor allow plug pull time lockdown force isolation mean communication people electronic mean long face face discourse discussion cult psychopath target bar restaurant sport venue meeting place general reason chance stop people gather kind privacy number able track monitor internet communication block necessary private message individual censor fascist control cult front like facebook twîĵer google youtube officially run sabbatian place people background high level sabbatian place people facebook google amazon like seed fund support existence money object infusion fund directly indirectly darpa cia technology arm q tel cult play long game prepare carefully big play like covid amazon psychological war preĵy control global market book sale increasingly publishing amazon limitless fund delete fantastic number independent publisher seize global domination way decide book sell circulate move direction happen amazon lead light jeff bezos grandson lawrence preston gise work darpa predecessor arpa amazon big connection cia pentagon plan long describe go like 1 employ military technology establish internet 2 sell internet place people freely communicate censorship allow happen net central irreversible pillar human society internet highly censor start reject 3 fund manipulate major corporation control circulation information internet cover story geek garage explain come unlimited fund expand rapidly need profit year non cult company need balance book compete know circumstance googles youtubes facebooks amazons go secure near monopoly crush buy opposition 4 allow freedom expression internet communication platform draw people internet central irreversible pillar human society communication corporation reach stage

near monopoly domination 5 unleash plan frenzy censorship basis go continue expand remain cult want human target process time hit covid hoax ensure good chance possible control narrative know cost ağer unleash deadly virus exist environment free-flowing information opinion dead water gates psychopath network place cult create own world health organization dictate covid narrative response policy slavishly support cult own internet communication giant mainstream medium tell different story censor google youtube facebook twiĵer openly announce expect cult own operation like facebook executive confirmed set platform addictive cigareĵe coldly manipulate emotion user sow division people group scramble mind young zuckerberg live rest life go jail crime humanity emphatically young travesty justice maĵer cause effect catch eventually sergey brin larry page google ceo sundar pichai fix google search result promote cult narrative hide opposition key word google search engine like duckduckgo different result wikipedia intensely biased encyclopaedia skew content cult agenda youtube link wikipedia version covid climate change video page expert field offer different opinion increasingly rare wojcicki censorship covid silence- network add government medium censor sorry regulator ofcom uk impose tyrannical restriction british broadcaster effect ban appear debate evidence view covid mean break fascistic imposition ofcom ceo career government bureaucrat melanie dawes

gutless british broadcaster tremble thought fascist psycho covid reason covid catastrophe facet form see drive policy worldwide coordinated way decision protect health target psychology dominant group guide advise government policy medical professional psychologist behavioural scientist major country version phenomenon use british example work way british version affecte wide world form huge behaviour manipulation network uk operate country network involve private company government intelligence military cabinet office centre government covid psyop own innovation charity nesta behavioural insights team bit claim independent government patently bit establish 2010 job manipulate psyche

population acquiesce government demand know nudge unit inspire 2009 book ultra- zionist cass sunstein richard thaler call nudge improve decisions health wealth happiness book behavioural insights team seek nudge behaviour manipulate public follow paĵern action perception suit authority cult sunstein skilled advise world health organization uk behavioural insights team administrator white house office information regulatory affairs obama administration biden appoint department homeland security ultra zionist fold oversee new immigration law policy cult want control sunstein desperate silence expose conspiracy co author 2008 report subject suggestion offere ban conspiracy theorizing impose kind tax financial disseminate theory guess psychiatrist chair question sunstein mate richard thaler academic affiliate uk behavioural insights team proponent behavioural economics define study effect psychological cognitive emotional cultural social factor decision individual institution study effect manipulate want lead name development behavioural economic ultra-zionists daniel kahneman robert j. shiller thaler win nobel memorial prize economic sciences work field behavioural insights team operate heart uk government expand globally partnership university include harvard oxford cambridge university college london ucl pennsylvania claim train reframe 20,000 civil servant run 750 project involve 400 randomised control trial dozen country version mind reframer common purpose bit work office new york city agency partner united states canada company own british government cabinet office executive order

president cult servant obama establish social behavioral sciences team 2015 reason brainwash population directly brainwash position covid mind game prime aspect uk mind control network independent joke scientific pandemic insights group behaviours spi b provide behavioural science advice aim anticipate help people adhere intervention recommend medical epidemiological expert mean manipulate public perception behaviour government tell disgusting want public safe lot lock key accord government website spi b consist behavioural scientist health social psychologist anthropologist historian advise whiĵy vallance

lead scientific advisory group emergencies sage turn advise government science covid policy politician guide science rabble country talk science dominate behaviour manipulator enforce government fascism public compliance behaviour insight team head psychologist david solomon halpern

visit professor king college london connect national global web civilian military organisation cult move goal fuse fascistic country fusion doctrine behaviour manipulation network involve confine foreign office national security council government communication headquarter gchq mi5 mi6 cabinet office base media monitoring unit rapid response unit monitor digital trend spot emerge issue include misinformation disinformation identifie good way respond 77th brigade uk military operate like notorious israeli military unit 8200 manipulate information discussion internet pose member public promote narrative discredit challenge military seek manipulate domestic public opinion nazis government fine conservative member parliament tobias ellwood advocate lockdown control vaccine passport lieutenant colonel reservist 77th brigade connect military operation jhub innovation centre ministry defence strategic command jhub involve civilian national health service nhs symptom trace population nhs key mind control network produce document december 2020 explain staff use psychological manipulation different group age dna manipulate covid vaccine design cumulatively rewrite human genetic document call optimising vaccination roll not messaging document communication wide sense publish nhs england nhs improvement behaviour change unit partnership public health england warwick business school hear mantra save nhs protect nhs need scrap nhs start current version far corrupt far anti human totally compromised cult operative asset uk government broadcast medium censor ofcom connect web bbc tremendous ofcom influence control public hear dictate mass perception nuremberg trial include personnel fear factor covid hoax lead creation uk cabinet office- connect joint biosecurity centre jbc officially describe provide expert advice pandemic independent cult operation independent analytical function provide real time analysis infection outbreak

identify respond outbreak covid-19 role advise government response spike infection example close school workplace local area infection level rise way promote cult agenda joint biosecurity centre model joint terrorism analysis centre analyse intelligence set terrorism threat level fusion civilian military operation intelligence lead military intelligence produce document vaccine

civilian military operation intelligence lead military intelligence produce document vaccine hesitancy combat domestic civilian maĵer opinion business military joint biosecurity centre head tom hurd director general office security counter terrorism establishment its-fingertip hurd family father foreign secretary douglas hurd coincidental tom hurd go elite eton college oxford university boris johnson imperial college ridiculous computer modeller neil ferguson connect gigantic web interconnect similar set up major major country compare cult network politician boris johnson donald trump joe biden bit player follow science network psychologist covid case start aim generate maximum fear virus ensure compliance population government behavioural science group know spi b produce paper march 2020 discussion main government science advisory group know sage head options increase adherence social distancing measure say following section head persuasion substantial number people feel sufficiently personally threaten reassure low death rate demographic group level concern rise have good understanding risk find positively associate adoption covid-19

social distancing measure hong kong perceive level personal threat need increase complacent hard hiĵe evaluation option increase social distance emotional messaging effective empower people make clear action reduce threat responsibility

insufficient understanding feeling responsibility people role transmiĵe infection message action need frame positively term protect oneself community increase confidence effective people persuade appeal play rule duty community personal risk different approach need

messaging need account reality different people life messaging need account different motivational lever circumstance different people achieve spi b psychologist say medium increase sense personal threat translate terrify shit population include child want happen excuse journalist know journalism bite arse great majority play crucial serve cult- government psyop enslave kid grandkid live idea psychological war underpin constant government covid propaganda television radio ad break plus internet print medium pound fear taxpayer foot bill programming result people terrifie virus exist tiny fatality rate believe people walk street shop wear face nappy damage health psychology report refuse naïve police turn face nappy cameraman come flat frightened covid come wear mask refuse shake hand case catch naïveitis thought work mainstream medium depressing behaviour perfectly explainable fear grip mind freeze compliance carefully cultivate psychologist psychopath life destroy lot young people commit suicide show plan work spi b turn compulsion public comply adequate preparation rapid change achieve say country introduce mandatory self isolation wide scale evidence major public unrest large majority uk population appear supportive coercive measure 64 percent adult say support puĵe london lockdown watch poll design people believe public opinion favour subject hand aggressive protective measure effective spi b paper say special aĵention devote population group risk translate orwellian mean make rest population feel guilty protect vulnerable old people cult agency kill industrial scale lockdown lack treatment gates vaccine psychopath psychologist sell guilt trip comprehensively los angeles county supervisor hilda solis report child apologise distance parent grandparent bring covid home geĵe sick apology word love one hear die say gut wrenchingly solis childhood tragedy tell child stay home love one alive

solis childhood tragedy tell child stay home love one alive imagine heap potentially life long guilt kid absolutely people deeply disturb psychologist uncivil war divide rule professional mind controller spi b want medium increase sense responsibility tell promote positive messaging action contrast invoke social disapproval unquestioning obedient community mind

compliant goebbels like medium oblige old old trick employ tyranny world human history target population target population line line spi b say play important role prevent anti social behaviour discourage failure enact pro social behaviour anti social orwellian parlance spi b behaviour government approve spi b recommendation say social disapproval accompany clear messaging promotion strong collective identity government celebrity mantra sure mind doctor contempt target think clueless comedian actor singer tell government want win uk comedian lenny henry actor michael caine singer elton john wheel serve propagandist urge people dna manipulate covid non-'vaccine role henry fellow black celebrity seek coax vaccine especially stomach turn emotion manipulate script carefully edit video feature black celeb insult intelligence black people self respect involve sell soul fascist government agenda henry say hear black people legitimate worry exactly have vaccine include obligatory reference black lives maĵer line let coronavirus cost black life maĵer god pathetic know vaccine safe comedian say script spi b say social disapproval need carefully manage avoid victimisation scapegoating misdirected criticism know recommendation lead exactly medium specifically stir divide conquer hostility conform like good liĵle baa baas praise see tidal wave lie covidiots awake abuse fast asleep conform fascism imposition awake know design endanger health dehumanise tear asunder fabric human society curtain- twitcher moron report neighbour face- nappie police break covid rule fascist police delight post link phone number cult impose compliant police military compliant population willing play enslave kid word pastor nazi germany appropriate today come socialist speak socialist come trade unionist

germany appropriate today come socialist speak socialist come trade unionist speak trade come jews speak jew come leave speak learn history destine repeat covid rule rewire mind background lay gigantic national global web psychological manipulation covid rule clear sinister perspective forget claim protect health covid rule dismantle human mind break human spirit destroy self respect puĵe humpty dumpty servile submissive slave social isolation lockdown distancing devastating effect human psyche psychological psychopath know real

reason human need contact discourse closeness touch eventually literarily crazy mask address length fundamentally add effect isolation cult agenda dehumanise de individualise population know fact seek outcome epitome evil psychologist involve epitome evil like rest cult demon asset stand trial crime humanity scale defie imagination psychopath uniform use isolation break enemy troop agent subservient submissive tell know technique rightly consider form torture torture certainly impose human clinically insane american psychologist harry harlow famous isolation experiment 1950s separate baby monkey mother imprison month end metal container pit despair soon begin mental distress depression idiot predict harlow monkey steel chamber month deny contact animal human say effect total social isolation month devastating debilitating assume initially month isolation produce additional decrement month isolation obliterate animal socially cult partial isolation allow form relationship monkey aggressive hostile body see young consequence lockdown uk government psychopath launch public relation campaign tell people hug ağer receive covid-19 vaccine tell lie allow return normal life government source tell telegraph line great vaccinate go visit family hug grandchild chance go infect people love source apparently speak secure psychiatric facility janet lord director birmingham university institute inflammation ageing say parent grandparent avoid hug child ms lord fuck off. yep destroy kid parent observe happen people enslave isolate lockdown suicide self harm soar worldwide particularly young deny freedom associate friend study 49,000 people english speak country conclude half

associate friend study 49,000 people english speak country conclude half young adult clinical risk mental health disorder national survey america 1,000 currently enrol high school college student find 5 percent report

ajempte suicide

pandemic datum cdc national syndromic surveillance program january 1st october 17th 2020

reveal 31 percent increase mental health issue adolescent age 12 17 compare 2019 cdc report america general suffere big drop life expectancy world war fall year first half 2020 result death despair overdose suicide death despair leap 20 percent lockdown include high number fatal overdose record single year 81,000 internet addiction consequence isolate home lower interest physical activity kid fall inertia point child young people lose hope give life literally 14 year old boy kill maryland give school district reopen 11 year old boy shoot zoom class teenager maine succumb isolation pandemic end life ağer experience disrupted senior year school child young take life story repeat world career destroy start include sport promising youngster able plan psycho psychologist work right researcher cambridge university find lockdown cause significant harm child mental health study publish archives disease childhood follow 168 child age 7 11 researcher conclude uk lockdown child depression symptom increase substantially relative lockdown scale effect direct relevance continuation different element lockdown policy complete partial school closure specifically observe statistically significant increase rating depression medium large effect size finding emphasise need incorporate potential impact lockdown child mental health plan ongoing response global pandemic recovery chance cult psycho psychologist geĵe exactly want uk royal college paediatrics child health urge parent look sign eating disorder child young people ağer fold increase specialist pandemic major reason rise college say isolation friend school closure exam cancellation loss extra curricular activity like sport increase use social medium contributory factor fear virus psycho psychologist family finance student force quarantine doctor say young people severely ill time see covid regulation reduce face face consultation young devastate psychopath like bully coward cult target young elderly weak infirm typical story tell british lady call lynn parker allow visit

typical story tell british lady call lynn parker allow visit husband 2020 half month life need march 20th die december 19th vacate criminal enter territory evil emotional impact immune system immense number people age worldwide die result cult demand gates demand

lockdown isolation torture experience impose solitary confinement million prisoner world show large percentage actively psychotic and/or acutely suicidal social isolation find trigger specific psychiatric syndrome characterize hallucination panic aĵack overt paranoia diminished impulse control hypersensitivity external stimulus difficultie thinking concentration memory juan mendez

united nations rapporteur investigator say isolation form torture research show aǧer isolation prisoner find far difficult social connection remember chaĵe shop assistant aǧer lockdown tell young son meet child idea act hannah flanagan director emergency services journey mental health center dane county wisconsin say specificity covid social distancing isolation come contribute factor suicide new year new devise geĵe effect want population psychologically dismantle rebuild totally different way child young particularly target adult fascist ai control technocracy plan impose prepare meekly submit time old people memory life like fascist new normal delete go effort turn young old support geriatric genocide hannah flanagan say big increase suicide county prove social isolation harmful deadly study show isolation main risk factor suicide woman warning lockdown create perfect storm suicide ignore aǧer reason lockdown suicide extreme isolation consequence dr dhruv khullar assistant professor healthcare policy weill cornell medical college say new york times article 2016 long fake pandemic wave new research suggest social separation bad individual social connection disrupt sleep pattern alter immune system inflammation high level stress hormone recent study find isolation increase risk heart disease 29 percent stroke 32 percent analysis pool datum 70 study 3.4 million people find socially isolate individual 30 percent high risk die seven year effect large middle age loneliness accelerate cognitive decline old adult isolate individual twice likely die prematurely robust social interaction effect start early socially isolate child significantly poor health 20 year later control factor tell loneliness important risk factor early death obesity smoking proof article year 2020 enforce lockdown social distancing isolation know effect professional psychologist drive policy globe year 2000 2003 start major study

effect isolation health dr janine gronewold professor dirk m. hermann university hospital essen germany analyse datum 4,316 people average age 59 recruit long term research project find socially isolate people

59 recruit long term research project find socially isolate people 40 percent likely heart aĵack stroke major cardiovascular event nearly 50 percent likely die cause give financial armageddon unleash lockdown note study find relationship increase cardiovascular risk lack financial support aǧer exclude factor social isolation connect 44 percent increase risk cardiovascular problem 47 percent increase risk death cause lack financial support associate 30 percent increase risk cardiovascular health event dr gronewold say know time feel lonely lack contact close friend family impact physical health study show have strong social relationship high importance heart health

gronewold say understand people socially isolate poor health outcome obviously worrying finding particularly time prolong social distancing explain level identify point body people feel loneliness miss people part centre chest feel ache loneliness ache miss people heart ache heart ache company explain chapter escape wetiko realise body mind expression reason state mind dictate state body clear american psychologist ranjit powar highlight effect lockdown isolation early april 2020 say human evolve social creature wire live interactive group isolate family friend colleague unbalancing traumatic people result short long term psychological physical health problem increase level anxiety aggression depression forgetfulness hallucination possible psychological effect isolation mental condition precipitate underlie pre existing susceptibility pre condition powar say personal relationship help cope stress lose outlet leĵe off steam result big emotional void average person difficult deal day isolation cause increase level anxiety depression hell effect global population 18 month time writing powar say add loom threat dreadful disease repeatedly hammer medium recipe shade mental physical distress house garden easy forget billion endure lockdown isolation tiny overcrowded

flat apartment outside psychological physical consequence unimaginable lunatic abusive partner parent consequence lead tremendous increase domestic child abuse alcoholism people seek shut horror ranjit powar say stay confine space family rosy picture extremely oppressive claustrophobic large low income family huddle small single room house child lucky board electronic game book occupied add deep insecurity run fund food basic necessity hand people dysfunctional family dynamic domineering abusive alcoholic partner sibling parent make stay home period trial incidence suicide physical abuse woman show worldwide increase heightened anxiety depression affect person immune system make susceptible illness think powar article publish april 11th 2020 social unsocial distancing demand people stay foot metre apart uk government advisor robert dingwall new emerge respiratory virus threats advisory group say radio interview metre rule conjure base science

advisory group say radio interview metre rule conjure base science base medical science come distance relate psychological science foot metre adopt country tell people like criminal anthony fauci ilk found science school reopen space six- foot distancing march 2021 ağer year foot science study publish journal infectious diseases involve 500,000 student 100,000 staff 16 week reveal significant difference covid case foot foot fauci change tune foot okay difference foot inch virus get away foot psychological reason long hear journalist talk unintended consequence lockdown unintended coldly calculate specific outcome human control super psychopath like gates call vehemently super psychopath psychologist demand psychopathic clueless spineless politician go follow science science science people manipulate believe covid catastrophe found mind control word statement mantra issue uk government know mind control technique stay home protect nhs save life stay alert control virus save life hand face space vocal proponent extreme covid rule uk professor susan michie member british communist party medical professional michie director centre behaviour change university college london behavioural psychologist filthy rich marxist praise china draconian lockdown know fellow student oxford university stalin nanny extreme marxism michie influential

member uk government scientific advisory group emergencies sage behavioural manipulation group dominate covid policy consultant adviser world health organization covid-19 behaviour hell lockdown claim health behavioural psychologist group charge change behaviour public want lockdown human isolation mandatory mask question need answer michie absolutely explain nuremberg court humanity take world consequence mask demand compulsory michie classic benefit get primary school child wear mask regardless little degree transmission occur age group help normalise practice young child wear mask likely family accept mask word carry prison sentence ponder callous disregard child involve statement make mind motivation susan michie lovely lady say encapsulate mentality psychopath covid horror let compare michie say countrywide study germany publish researchsquare.com involve 25,000 school

michie say countrywide study germany publish researchsquare.com involve 25,000 school child 17,854 health complaint submiĵe parent researcher find mask harm child physically psychologically behaviourally 24 health issue associate mask wearing include shortness breath 29.7 dizziness 26.4 increase headache 53 difficulty concentrating 50 drowsiness fatigue 37 malaise 42 nearly child experience sleep issue quarter develop new fear researcher find health issue impairment 68 percent masked child cover face average 4.5 hour day hundred take experience accelerated respiration tightness chest weakness short term impairment consciousness reminder michie say benefit get primary school child wear mask regardless little degree transmission occur age group help normalise practice young child wear mask likely family accept mask psychopath government psychology child young people plus adult wear mask hour end clueless teacher impose psychopath cult lab rat school impose student microchippe buzzer activate close pal way lab rat apt cult brain dead servant child lab rat condition unquestioning dehumanised slave rest life child young people wean frighten away natural human instinct include closeness touch track book year school ban pupil greet hug cult induce movement terrifie man boy relaxed natural interaction female friend work colleague point man try room woman partner airhead celebrity play virtue signal make

happen gross exaggeration monster like harvey weinstein

ten thousand man treat woman like brand policy change monster go word dehumanise time chapter cult seek go deep shall let kid social distancing plan end day idea see government company fund produce wearable gadget people apart tech start company back gchq british intelligence military surveillance headquarter create social distance wrist sensor alert people close cia support tech company develop similar device wearable sensor develop tended number start company support gchq cia darpa device wear wrist tag waistband vibrate wear device breach social distancing get near natural human contact company lucky break develop distance sensor covid hoax arrive immediately provide potentially enormous market fortunate government big time cult control ontario canada invest $ 2.5 million wearable contact tracing technology alert user expose covid-19 workplace beep vibrate foot person facedrive inc.

technology company found 2016 funding ontario fund obviously prophet board director human surveillance control technology call tracescan wear human cyborg place airport workplace construction site care home school emphasise school child young people prime target know plan society eye school place state program generation slave compliant worker ant woker ant day mist covid madness transform mind laboratory scale see teacher head teacher program kid oĝen child keep apart human interaction walk lane classroom distancing staggered meal time mask rolling buzzer system school physically lay laboratory maze lab rat lunatic school anchorage alaska prosecute child abuse take away desk force child kneel know place mat five hour day wear mask chair desk suppose impact virus clinically insane people tell clap trap school ban recess interaction art class creativity physical exercise geĵe body mind move inertia outrage jail beĵer mental institution behavioural manipulator dystopian approach school professor susan michie mind doctor british communist party member say wrong school safe distancing mask ventilation siĵe day cold ask lady round dinner night know go week probably able visit psychologist block book know shocking behaviour manipulator like

michie want wear mask long feature mind control program like infamous mkultra united states live learn spend year 1996 right millennium research mind control detail side atlantic meet large number mind control survivor hold captive body mind mkultra mk stand mind control employ german spelling deference nazis spirit germany end world war operation paperclip authority help vatican transport nazi mind controller engineer america continue work creation nasa include nazi scientist ss officer wernher von braun swap design v-2 rocket bombard london design saturn v rocket power nasa moon programme apollo crağ.

think mention cult border paperclip escapee josef mengele angel death nazi concentration camp conduct mind genetic experiment child oğen twin provide control twin measure impact work want observe cult mentality extreme evil look life mengele meet people suffere mercilessly mengele united states operate dr greene stalwart mkultra programming torture location underground facility mojave desert california call china lake naval weapons station entirely surface book biggest secret children matrix perception deception detailed background mkultra well know mkultra survivor american cathy o'brien first meet late partner mark phillips conference colorado 1996 mark help escape deprogram decade captivity offshoot mkultra know project monarch sex slave provide rich famous include father george bush dick cheney clintons read cathy mark book trance formation america new shock core read 1996 shortly usual synchronicity life find give book table conference right mkultra end despite publicly expose small 1970 continue guise touch cathy contact 2020 ağer mask compulsory country tell mkultra programming observe covid regulation relationship authority public month see technique know employ individual mkultra global population read book manual mind control include call silent weapons quiet wars come light 1980 guide perceptually program mass scale silent weapons refer mind control remember line manual government medical authority law enforcement agency obviously talk adult population covid hoax begin child person speak t.v. advertiser year old

suggestibility certain probability respond react suggestion uncritical response year old reach economic reservoir deliver energy buy product impulse pass store authority speak adult like child michael jackson wear mask aspect covid narrative mind control central theme cathy o'brien write article davidicke.com connection mask mind control daughter kelly first meet 1990 bear cathy hold captive mkultra kelly force wear mask programming age dehumanise target sense individuality reduce oxygen brain body receive bingo real reason compulsory mask enforce en masse seek increase number demand wear disgraceful alleged doctor recommend death sentence oğen wear expand purpose mass mind control damage respiratory health covid-19 canada government

head man child justin trudeau say fine child old wear mask insane study italy involve 47 child conclude problem baby young month wear ağer people vaccinate tell wear mask criminal anthony fauci cathy write mandate mask allow authority literally control air breathe mkultra recall singer michael jackson wear mask reason subject mkultra mind control project monarch psyche scramble simpleton cathy write mkultra project monarch mind control michael jackson wear mask silence voice reach help remember develop whisper voice singe mask control mind outside like redefining beat example ultimately control thought drive word ultimately action lack thereof likewise mask muffle speech hear control voice word mind mind control mask obvious mind control device disturb people comply global scale mask depersonalize make person feel voice barrier people choose comply force wear mask order job ultimately family feed compromise feel shame subdue people stop talk media control narrative voice theme oğen literal train passenger tell speak case pass virus singing ban reason bonker california official tell people ride roller coaster shout scream cathy say hear day heal mkultra survivor wear mask flashe way breathing control ball gag penis water boarding say year see image people china wear mask pollution control oxygen level know population control mechanism depersonalisation burka say mask chinese communist fascist method control sweep west west china

lightning speed enter 2020 reason mandatory mask include destroy respiratory health covid-19 stunt brain development child young dr margarite griesz- brisson md phd consultant neurologist neurophysiologist founder medical director london neurology pain clinic cv go street round corner clearly care people will parrot propaganda griesz brisson phd pharmacology special interest neurotoxicology environmental medicine neuroregeneration neuroplasticity way brain change light information receive go public october 2020 passionate warning effect mask wear law reinhalation exhale air doubt create oxygen deficiency flooding carbon dioxide know human brain sensitive oxygen deprivation nerve cell example hippocampus long 3 minute oxygen survive acute warning symptom headache drowsines dizziness issue concentration slowing reaction time reaction cognitive system oh know let tell bus truck taxi driver wear people work machinery pilot doctor police griesz brisson make important point symptom mention fade body readjust alter fact people continue operate oxygen deficit long list potential consequence say know neurodegenerative disease year decade develop today forget phone number breakdown brain start 20 30 year ago say degenerative process brain geĵing amplifie oxygen deprivation continue wear mask nerve cell brain unable divide normally circumstance lose nerve cell long regenerate go go consider people like shop worker schoolchildren wear mask hour day sanity go happen wear mask need brain think griesz brisson say want clear head deal patient carbon dioxide induce anaesthesia tell wear mask ask organisation police store risk assessment danger negative effect mind body enforce mask wearing will government subject class action lawsuit consequence come light mask risk assessment obvious reason know conclusion independent scientific study tell horror story consequence mask criminal dr griesz brisson say child adolescent mask absolute extremely active adaptive immune system brain incredibly active learn child brain youth brain thirst oxygen metabolically active organ oxygen require child adolescent organ metabolically active griesz brisson say deprive child adolescent

adolescent organ metabolically active griesz brisson say deprive child adolescent brain oxygen restrict way dangerous health absolutely criminal oxygen deficiency inhibit development brain damage take place result reverse mind manipulator mkultra mask year old want neurologically rewire griesz brisson say child need brain learn brain need oxygen function need clinical study simple indisputable physiology consciously purposely induce oxygen deficiency absolutely deliberate health hazard absolute medical contraindication mean drug therapy method measure allow coerce entire population use absolute medical contraindication force say definite reason reason present competent interdisciplinary independent body verifie authorise warning consequence come mask wearing continue year dementia go increase exponentially young generation reach god give potential will help need mask know damaging oxygen deprivation brain cardiologist know damaging heart pulmonologist know damaging lung oxygen deprivation damage single organ health department health insurance medical association duty vehemently lockdown stop stop beginning medical board issue punishment doctor people exemption person doctor seriously prove oxygen deprivation harm people kind medicine doctor medical association represent responsible crime one want enforce one let happen play one prevent organisation people mention answer directly cult hierarchical level tell outcome mask virus certainly health griesz brisson say participate afraid take air breathe unfounded medical exemption face mask oxygen deprivation dangerous single brain free decision human want wear mask absolutely ineffective protect virus end rightly identify responsibility lie imperative hour personal responsibility responsible think medium responsible superior responsible health world health organization responsible happen country government surgeon wear mask right independent study mask wearing produce long list report detail mental emotional physical danger definition insanity police officer impose mask wearing public cumulatively damage health police wear mask cumulatively damage health uĵer madness public police government say yes government brain donor idiot like uk health secretary maĵ hancock read follow science script psychopathic lunatic psychologist response stockholm syndrome

read follow science script psychopathic lunatic psychologist response stockholm syndrome sufferer defend authority destroy family surgeon wear mask consider game set match work cause oxygen deficit actually scientific study show oxygen level monitor operating theatre compensate surgeon wear mask stop spiĵle like drop open wound stop viral particle miniscule see electron microscope hole mask significantly big viral particle sneeze cough breach mask watch incredibly disingenuous experiment claim prove mask work catch virus material mouth nose slow motion camera mask block big stuff stay inside mask face breathe cause infection face see child viral particle pick camera come mask far small see experiment disingenuous useless study conclude wear mask operating theatre difference prevent infection opposite true toxic shite build mask lead explosion tooth decay gum disease dub dentist mask mouth see internet video furious american doctor urge people off mask ağer year old patient rush hospital night nearly die lung infection doctor source mask wearing study journal cancer discovery find inhalation harmful microbe contribute advanced stage lung cancer adult long term use mask help breed dangerous pathogen

microbiologist say frequent mask wearing create moist environment microbe grow proliferate enter lung canadian agency drugs technologies health cadth canadian national organisation provide research analysis healthcare decision maker say long ago 2013 report entitle use surgical masks operating room review clinical effectiveness guidelines say evidence find support use surgical face mask reduce frequency surgical site infection evidence find effectiveness wear surgical face mask protect staff infectious material guidelines recommend use surgical face mask staff operating room protect operating room staff patient despite lack evidence tell world normal arrival vaccine come fraudulent story change know midst transform normal go mary ramsay head immunisation public health england echo word criminal anthony fauci say mask regulation stay maĵer people vaccinate fauci idiot continue wear mask different colour clearly see ağer claim vaccinate senator rand paul tell fauci

exchange double mask theatre right theatre mary ramsay track vaccine- return normal theme say public need wear mask social distance year despite jab people get low level restriction live say tell idea vaccine pass continue follow guideline say public health england statement renege tell have vaccine irrelevant normality official story spain fascist government trump pass law mandate wearing mask beach swim sea devastate leğ spanish tourist industry pose potential breathing danger swimmer northern european sunbather walk forehead brown rest face white sheet ruling crazy retract ağer pressure public tourist industry confirme cult want mask clinically insane authority determination mask permanent hide danger body mind see censorship scientist professor denis rancourt bill gates- fund academic publishing website researchgate paper expose danger uselessness mask rancourt say researchgate today permanently lock account 2015 reason graphically nature attack democracy corruption science obscene non logic scientific review science article report harm cause face mask potential cause harm criticism psychological device face mask tolerate say criticism show potential influence public policy happen

mask tolerate say criticism show potential influence public policy happen fascist world green danger wear mask especially regularly relate inhalation minute plastic fibre lung deluge discard mask environment ocean estimate predict 1.5 billion disposable mask end world ocean year pollute water ton plastic endanger marine wildlife study project human 129 billion face mask month worldwide million minute disposable plastic non- biodegradable microfiber break small plastic particle widespread ecosystem liĵere city clog sewage channel turn body water wriĵen book immense amount microplastic endless source absorb body rolf halden director arizona state university asu biodesign center environmental health engineering senior researcher 2020 study analyse 47 human tissue sample find microplastic detect chemical plastic single organ investigate say write answer world deluge microplastic study worldwide fund nature wwf find people consume average week 2,000 tiny piece plastic water marine life air year human ingest microplastic fill heaped dinner plate life time 79 year fill

large waste bin marco lambertini wwf international director general say plastic pollute ocean waterway kill marine life escape consume plastic american geologist find tiny plastic fibre bead shard rainwater sample collect remote slope rocky mountain national park near denver colorado report head rain plastic rachel adams senior lecturer biomedical science cardiff metropolitan university say health consequence internal inflammation immune response foreign body point microplastic carrier toxin include mercury pesticide dioxin know cause cancer reproductive developmental problem toxin accumulate faĵy tissue enter body microplastic compound massively

people puĵe plastic face

throw away worker expose polypropylene plastic fibre know flock develop flock worker lung inhale small piece flock fibre damage lung tissue reduce breathing capacity exacerbate respiratory problem commonly surgical mask layer melt blow textile polypropylene billion people puĵe microplastic mouth nose face hour time day ağer day form mask think work mean possibly wrong post number scientific study davidicke.com go write book link science research website host dead challenge official narrative way censor vilifie official narrative unsupportable evidence delete truth protect study chinese scientist survive usual twist active guess yes find virtually mask test increase daily intake microplastic fibre people wear danger virus bad say crazy team institute hydrobiology wuhan scientist first discover microplastic lung tissue patient die lung cancer 1990 subsequent study confirme potential health damage plastic degrade slowly remain lung accumulate volume wuhan researcher machine simulate human breathing establish mask shed nearly 4,000 microplastic fibre month reuse mask produce scientist say mask lace toxic chemical variety compound seriously restrict health environmental reason include cobalt blue dye formaldehyde know cause watery eye burn sensation eye nose throat plus coughing wheezing nausea covid-19 potentially sinister content mask new mask different make filme microscope world find contain strange black

fibre worm appear crawl react heat water near see self- replicate fibre pull skin suffere morgellons disease connect phenomenon chemtrail bring story later morgellons fibre continue grow outside body form artificial intelligence black worm fibre mask kind feel nanotechnology technique call worm micelle carry release drug want deliver body sure suppression humanity mind alter drug cult agenda big time excuse find gain access body opportunity happen vaccine mask push mouth nose hour let summarise pro con mask mask breathe carbon dioxide deprive body brain sufficient oxygen build toxin mask breathe lung cause rash face mask mouth breathe microplastic fibre toxic chemical lung

rash face mask mouth breathe microplastic fibre toxic chemical lung dehumanisation delete individualisation literally make people faceless destroy human emotional interaction facial expression delete parental connection baby look guidance facial expression mask protect virus exist viral particle minute small hole mask government police supermarket business transport company rest seek impose mask risk assessment consequence health psychology open group lawsuit impact clear cumulative epidemic respiratory disease authority try exploit effect hide real cause dub covid-19 imagine seĵe force assessment risk criminal evil people target way child tell wear day school ask risk assessment billion impose billion allow oh yes tinge irony 85 percent mask worldwide come china wash hand toxic shite covid rule include use toxic sanitiser health consequence constantly apply toxin absorb skin obvious level renegade mind america food drug administration fda say sanitiser drug issue warning 75 dangerous brand contain methanol antifreeze cause death kidney damage blindness fda circulate following warning brand claim safe store hand sanitizer reach pet child child use adult supervision drink hand sanitizer particularly important young child especially toddler attract pleasant smell brightly color bottle hand sanitizer drink small hand sanitizer cause alcohol poisoning child need concern child eat lick hand hand sanitizer coronavirus pandemic poison control center increase call accidental ingestion hand sanitizer important adult monitor young child use allow pet swallow hand sanitizer think pet eat potentially dangerous

veterinarian pet poison control center right away hand sanitizer flammable store away heat flame hand sanitizer rub hand feel completely dry perform activity involve heat spark static electricity open flame perfectly safe mention toxin absorb skin come kid sanitise hand save virus element covid normal health psychology cumulatively damage devastate protect health make sense right impose thing care right right submit insanity psychological reframing population go deep obvious way hear people contradictory crazy covid rule

go deep obvious way hear people contradictory crazy covid rule change explain away dismiss involve idiot big mistake cult delight cold calculation perceive incompetence idiocy oh yes idiot system lot administer cult agenda unknowingly decide dictate bulwark tyranny self- respect self respect break tyranny history nature self respect bow oppression perpetrator liĵle self- respect overturn dictator eventually follow iron spine self respect kick off generate momentum cult target self respect knowledge go submission remain crazy contradictory change covid rule systematically apply psychologist delete self respect want rule sense thing decide choice base evidence logic retain self respect tell insane ridiculous make sense self respect extinguish happen obviously stupid nonsensical thing demand great majority comply stupid people walk face nappy know damage health difference virus fear happen die inside submissive reframing begin need hide concede self respect convince submiĵe fear intimidation begin believe comply craziness right thing first concede self respect 2 + 2 = 4 2 + 2 = 5 know compromise self respect gradually avoid face fact begin believe 2 + 2=5 reframe watch process happen human psyche industrial scale cult work break spirit major tool war humiliation read american soldier bradley manning later chelsea manning ağer sex change treat ağer jail supply wikileaks document expose enormity government elite mendacity manning isolate solitary confinement month 24 hour surveillance force hand clothing go bed stand naked roll systematic humiliation introduction anal swab covid test china reason delete self respect induce compliant submission anal swab mandatory incoming passenger part china american diplomat say force undergo indignity calculated humiliation cult own chinese government

america sight government people abusive relationship spirit break psychological technique include give people hope apparent respite tyranny away happen uk christmas 2020 psycho-psychologist political lackey announce easing restriction holiday reimpose immediately basis lie big psychological difference geĵe oppression

holiday reimpose immediately basis lie big psychological difference geĵe oppression give hope relief dash psychologist know see technique repeatedly traumatise people introduce extreme regulation require compliance perfect case announcement dark sinister whiĵy vallance uk new datum predict 4,000 die day winter 2020/2021 lockdown think lying aǧer traumatise people claim come jackboot johnson day new curb human freedom psychologist know frightened traumatise mind suggestable submission behaviour reframing underpin people fearful suspicious potential danger league delete self respect perfect psychological recipe self loathing relationship authority public demonstrably subservience abusive partner sign abusive relationship explain psychologist leslie becker phelps psychological emotional abuse undermine partner self worth verbal aĵack calling beliĵling humiliate partner public unjustly accuse have affair interrogate behavior keep partner confused off balance say kid blame partner make act way feign public care turn private lead victim frequently feel confused incompetent unworthy hopeless chronically self doubting apply technique government treat population new year 2020 parallel obvious physical abuse abuser physically harm partner range way grab hiĵe punch shove throw object harm weapon observe physical harm impose mask lockdown threat intimidation way abuser partner line instill fear verbally threaten threatening look gesture abuser oǧen know track partner destroy partner possession threaten harm threaten harm family member surprisingly victim abuse oǧen feel anxiety fear panic word necessary isolation abuser oǧen limit partner activity forbid talk interact friend family limit access car turn off phone physically hold oǧen accomplish psychological abuse intimidation isolated person feel few resource help gain perspective situation escape word economic abuse abuser oǧen partner beholden money control access fund kind prevent

partner geĵe job withhold access money earn job create financial dependency make leave relationship difficult destruction livelihood propose meagre guarantee income long tell child abuser disparage partner parenting skill tell child lie partner threaten custody child threaten harm child tactic

child lie partner threaten custody child threaten harm child tactic instil fear oğen elicit compliance reframe social service mafia child mercilessly abuse state covid parent look frightened recur trait abusive relationship abuse blame abuse make excuse abuser public blame lockdown abuse government make excuse government aĵacke challenge government oğen hear authority rule impose reimpose people refuse behave follow rule want renegade minds antidote thing concede self respect maĵer circumstance apparent humiliation heap laugh face reflect humiliation abuser belong renegade minds wear mask know impose humiliate suppress damage physically psychologically consequence care break spirit cause concede tyranny uk newspaper columnist peter hitchens

mainstream medium speak lockdown force vaccination announce take jab want family member abroad believe vaccine passport inevitable introduce hitchens questioning critical mind renegade pressure concede hitchens excuse action say baĵle lose renegade minds accept defeat freedom stake standing self respect submiĵe tyranny important outcome consequence renegade minds mind change worth change insanity relative depend lock cage eframe mind mean simply change perception behaviour subconsciously extent subject idea reframe observer change behaviour aĵitude obvious human society reframe ginormous scale start 2020 reason psychologist doctor call shot ask people succumb covid reframing change fundamentally cult long game prepare time way crucial prepare population officialdom mentally emotionally use mind control parlance reframe population mentality submit fascism reframe government law enforcement impose fascism result fact- delete mindlessness wokeness officialdom enthusiastically unquestioningly impose global tyranny demand

reframe politician behalf psychopathic deeply evil cultist cognitive reframing identifie challenge way see world form situation experience emotion restructure perception view set circumstance different way benefit aĵitude personally destructive potential individual collective mind control subject idea happen cognitive therapy develop 1960 aaron t. beck bear rhode island 1921 son jewish immigrant ukraine interested technique treatment depression beck

daughter judith s. beck prominent field found beck institute cognitive behavior therapy philadelphia 1994 cognitive reframing begin worldwide dark agenda cult reframe politician change aĵitude action completely odd appear stand happen government administrator level law enforcement military human population cultist love mind control main reason allow control people think secure agenda advancement definition calm legendary insecurity fear unexpected study mind control time travel america 1996 talk term audience year goodness gather phenomenal information knowledge thing include technique mind control describe detail book go biggest secret 1998 meet large number people recover mkultra offshoot successor begin technique population general obvious covid hoax begin reframe enforcer observe decade clear transformation dynamic police officialdom public track book relationship mutate serve public see enemy certainly low caste class divide base income psychopathic corrupt big police officer different wholesale change unfold collective dynamic money far position perceive power emerge nose liğe skyward government administration law enforcement aĵitude public suppose serve change increase contempt superiority control transformation clear widespread plan collective aĵitude dynamic change naturally organically quickly scale come organisation britain call common purpose create late 1980 julia middleton work office deputy prime minister john prescoĵ long disastrous premiership war criminal tony blair blair speak cult speak man jail long time ago common purpose proclaim big leadership development organisation world function charity financial benefit come host leadership development course programme world claim bring call leader 100 country continent modus operandi common purpose compare work uk government reframing network include

behavioural insights team nudge unit covid reframing specialist spi b.

wikileaks describe common purpose long ago hidden virus government school unknown general public recruit train leader loyal directive common purpose eu instead department undermine subvert nhs national health service example vital point understand covid hoax nhs equivalent world uĵerly reframe term administrator medical personnel transformation underpin recruitment policy outcome criminal psychopathic behaviour nhs covid see major country wikileaks say common purpose trainee learn rule regard democracy usher police state current event explain common purpose operate like glue member nhs bbc police legal profession church britain 7,000 quango local council civil service government ministry parliament control rda regional development agencies

answer british institution like country change negatively relation public explain disgraceful reframe bbc propaganda arm covid fascism network pursue goal 2019 common purpose quote figure 85,000 leader aĵende programme student age know common purpose graduate consist government state local government official administrator police chief officer range operate national local global establishment cressida dick commissioner london metropolitan police common purpose graduate gold commander oversee describe murder brazilian electrician jean charles de menezes 2005 hold psychopathic police shoot seven time head psychopathic lunatic aǧer mistake terrorist bloke go day dick authorise officer pursue surveillance de menezes order stop enter underground train system police psychopath take word clearly disciplined outrage promote eventually met police disaster chief constables control police different part uk common purpose graduate hear graduate network describe sort mafia secret society operate fabric government level pursue collective policy ingrain common purpose training event founder julia middleton say locally internationally common purpose graduate light small fire create change organisation community common purpose effect well illustrate story small change bring leader common purpose mission statement

declare common purpose aim improve way society work expand vision decision- make ability influence kind leader organisation run variety educational programme leader age background sector order provide inspirational information opportunity need change world yes 2020 answer clear nlp delphi technique common purpose perfect common programming beĵer foundation method reach consensus group think seĵe agenda theme encourage cajole pressure agree consensus line core theme promote common purpose methodology involve delphi technique adaption opinion express summarise facilitator change agent stage participant encourage modify view light say stage stage individual opinion merge group consensus happen common purpose want believe key marginalise refuse concede group think turn group apply pressure conform see technique general population covid group thinker hostile see bullshit people reframe perception manipulation method neuro linguistic programming nlp change perception

reframe perception manipulation method neuro linguistic programming nlp change perception use carefully construct language nlp website describe technique way method influence brain behaviour neuro phrase use language linguistic type communication enable person recode way brain respond stimulus programming manifest new well behaviour neuro linguistic programming incorporate hypnosis self- hypnosis help achieve change programming want british alternative medium operation ukcolumn detailed research common purpose long period quote co founder naval officer brian gerrish book remember publish 2011 say follow year current time interesting mother child take state speak social services people icily cool emotionless lady say slightly different word like little robot know nlp cumulative people give small imperceptible dose nlp course month year etc way major change accrue personality day day change way graduate perception uniformly reframe return role institution government law enforcement legal profession military education uk national health service swathe establishment structure pursue common agenda prepare post industrial post democratic society prepare post industrial code great reset post democratic covid fascism

ukcolumn speak partner aĵende common purpose training describe personality aĵitude graduate change noticeably bad time complete course reframe tell leader special one know beĵer population demonstrable recruitment psychopath narcissist government administration level law enforcement want psychopathy hire psychopath simple cause effect want administrator police officer leader perceive public less being maĵer employ narcissist personality identifie psychometric identifie knowledge ability aĵitude personality trait carefully design questionnaire test policy pass decade power crazy power- tripper appoint law enforcement security government administration preparation current time dynamic public law enforcement officialdom transform ukcolumn brian gerrish say narcissistic love power automatically mean crush way receive major piece puzzle friend point public official apply job year ago require psychometric test undoubtedly start screening process sort people post obvious 2020 clear happen long people pay aĵention change centre event covid britain national health service

pay aĵention change centre event covid britain national health service nhs behave disgracefully slavishly follow cult agenda nhs management structure awash common purpose graduate change agent work common cause helen bevan chief service transformation nhs institute innovation improvement co author document call million change agent review social movement literature implication large scale change nhs document compare project management approach change social movement people change peer peer definition give social movement group people consciously attempt build radically new social order involve people broad range social background deploy politically confrontational socially disruptive tactic cyrus collective challenge base common purpose social solidarity sustained interaction elite opponent authority

sidney helen bevan

write nhs document define framing process leader construct articulate message powerful compelling way order win people cause action think come definition accurate national health service institution britain wide world take reframe change agent include united nations national government local council social service kidnap child love parent extraordinary gathering scale road end parenthood altogether child love home steal kidnap state care inversion local authority council home foster parent force adoption time child allow abuse response council care ukcolumn highlight common purpose connection south yorkshire police rotherham council officer case scandal area sexual exploitation child authority turn blind eye alarmed discover chief executive strategic director children young people services manager local strategic partnership community cohesion manager cabinet member cohesion chief constable predecessor attend leadership training course provide pseudo charity change agent secure position hire fire organisation thing start quickly personnel hire fire basis work agenda change agent represent rapidly promote incompetent qualified skilled pre common purpose old school career stall disappear happen decade institution state police health social service transform result aĵitude job public medical profession include nursing vocation caring employ cold callous shit personality type ukcolumn investigation conclude blur boundary people profession public private sector responsibility accountability common purpose encourage graduate believe new select leader work outside establish political social structure achieve paradigm shift change call lead authority reframe face nappy process obvious police recruitment psychopath development unquestioning mind control group thinker transform law enforcement politically correct woke joke travesty public service today wear face nappy like good liĵle gofer enforce covid rule fascism alongside specifically recruit psychopath soğware mind incapable free thought brian gerrish example policeman bike press photo cycling proficiency course normal people political correctness go mad truth policeman reframe reality perfect common sense bike cycling example police rescue boy pond take advice risk assessment normal person arrive think

boy pond take advice risk assessment normal person arrive think risk moment dive police reframe follow normal procedure sheer unthinking stupidity london face nappy head common purpose graduate cressida dick see behaviour vigil march 2021 murder woman sarah everard police officer charge crime brain leǧ vigil circumstance instead manhandle woman stop break covid rule betray classic reframing mind thrall perception control capacity see situation merit act accordingly rule rule mind set father rule regulation guidance intelligent blind obedience idiot intelligent decent copper go leave kind old school job daily nightmare combination psychopath rule book soǧware mind clearly public display covid era automaton robot uniform impose fascistic covid regulation population personal initiative judge situation merit thousand example world point infamous derbyshire police english east midlands one think pour dye beauty spot drone track people walk countryside away call policing rule decree government enforce bewildered state group gather closed space walk countryside thing idiocy enter realm clinical insanity police officer derbyshire say horrified horrified find 15 20 irresponsible kid play football match closed leisure centre breach coronavirus restriction see police kid run away leave belonging reframe man woman

derbyshire police seek establish identity view fine parent natural thing youngster kick ball turn criminal activity enforce moronic soǧware program derbyshire police find mentality country barely conscious horrified officer say action need ensure rule follow utmost importance ensure child follow rule regulation covid-19 second research parroting master script support evidence nope reframe people think think idea reframing see police officer aǧer repeat question word word officialdom tell see great swathe spew tell think official narrative police public different group mentality people tell fear entirety police tell reason ultimately tiny inner core global cult tell derbyshire police horrifie oh think kid play football relieve psychological consequence lockdown deny human contact friend interaction touch discourse vital human psychological health deny month aǧer month dismantle psyche child young people depression suicide explode derbyshire police horrify kid reframe people mental emotional

process impact psychological health youngster far dangerous virus mendacious official figure true reframe tell program act derbyshire chief constable first period lockdown black dye drone nonsense go peter goodman man sever connection force derbyshire constabulary male voice choir decide inclusive allow woman join fact male voice choir make particular sound produce male voice elude guy terrifyingly run policing derbyshire retire week ağer force condemn disgraceful supreme court justice jonathan sumption behaviour extreme lockdown imposition goodman replace deputy rachel swann charge officer horrifie police statement boy commîĵe hanging offence play football include line youngster irresponsible time live miss point real relevance time live imposition fascism enforce psychopath reframe mind police officer play vital establish fascist tyranny child grandchild live entire life definition insanity hard beat run close impose mask people effect health wear face nappy day public police reason authority tell self respect woker uniform reframed arrest year old court pick flower wait bus brain dead police officialdom north carolina

criminal proceeding happen regularly child aĵorney julie boyer

give year old crayon colouring book flower hearing adult decide fate county chief district court judge jay corpening ask child believe santa claus easter bunny tooth fairy make life alter decision course common sense meaning common purpose reframe mind treat child way police operate american school psychological preparation child accept police state normal adult life go camera biometric tracking technology school police training focus reframe snowflake wokers happen military pentagon brass say training session extremism need troop ask focused capitol building riot black lives maĵer riot ignore difference apparently rightly ask actually difference people die capitol riot violence police officer shoot unarmed protestor blm riot kill 25 people cost billion ask question prompt psychopath reframe mind run pentagon education programming need troop training base psychological programming fodder cult military man dumb stupid animal pawn foreign policy cult dna secretary state henry kissinger

famously say government police similar term time defend people stop enforcer cult agenda people military like country target destruction long list woke imposition cult own gaga president biden sign executive order take office allow taxpayer money pay transgender surgery active military personnel veteran man soldier lgbtqia+ hint skoliosexual spectrasexual oh good man bad choice word bigot pentagon announce march 2021 appointment first diversity inclusion officer special forces richard torres estrada arrive publication d&i strategic plan guide enterprise wide effort institutionalize sustain d&i think special forces strategic plan defend america pay aĵention defend woke military new role torres estrada post image compare donald trump adolf hitler expect bias representative supposedly non political pentagon cable news host tucker carlson say pentagon yale faculty lounge cruise missile secretary defense lloyd austin board member weapon maker raytheon stock compensation interest october 2020 worth $ 1.4 million say purge military enemy woke support donald trump austin refer target racist extremist true woke fashion

donald trump austin refer target racist extremist true woke fashion racist extremist pentagon document pledge eradicate eliminate conquer form racism sexism homophobia definition decide diversity inclusion commiĵee people racism sexism homophobia situation opinion woke cult dismantle military purge testosterone china expand military give troop masculinity training think go end cult coordinate military like british military control woke spineless brass personal career interest woke mean fast asleep mind control perception manipulation technique individual create group think unleash global population general result capacity obvious fascist agenda instal covid brain firewalle like computer system process certain concept thought realisation bad cult young target adult fascist global state plan fully implement need prepare total compliance eliminate pushback entire generation cult pour billion take complete control education school university operative corporation bill gates plan transform education institution programming centre mentality woke james mcconnell professor psychology university michigan write psychology today 1970 day come combine

sensory deprivation drug hypnosis astute manipulation reward punishment gain absolute control individual behaviour possible achieve rapid highly effective type brainwashing allow dramatic change person behaviour personality reshape society train birth want society want technique own personality acquire reason believe right refuse acquire new personality old anti social potential mass brainwashing 1970 mentality display capture arrogant psychopathy drive forward emphasise young people succumb woke programming incredibly impressive people give today young perceptually target generation history technology involve vast swathe young generation fall spell woke woke mentality perceptual program found inversion appreciate later significant woke invert opposite claim woke term african american culture 1900 refer awareness social racial justice meaning modern version new woke answer oh woke today mean different maĵer wokers seek hide insist old woke new woke find awareness social justice modern variety woke demand inclusivity exclude different opinion call mass censorship silence woke claim stand oppression impose oppression foundation driver

censorship silence woke claim stand oppression impose oppression foundation driver political correctness cult invention manipulate population silence woke believe liberal pursue global society describe fascist anti fascist fascist woke call social justice spread injustice go common enemy easily identifie differing view woke suppose metaphor awake solid- gold asleep deep cult induce coma meet criterion off fairy state point obvious fact people care look sense condemnation need appreciate onslaught perceptual programming young incessant merciless understand reframe give youth frame start world cult demand cult access mind day ağer day education system entire formative year perception form information receive cult- create system life long download information deliver elicit particular perception behaviour expand new extreme recent decade ever- increase censorship delete opinion information lead perceptual reframing mass scale describe cradle grave programming recent time targeting young mind birth adulthood enter stratosphere take form skewing teach fit cult agenda omnipresent technique group think isolate non believer pressure line tendency follow herd

new world relation parent covid hoax tell child stop wear mask school covid test have vaccine fear peer pressure consequence different peer pressure pressure conform group think renegade mind group think retain set perception unique group think underpin consequence group thinking abuse aim refuse dna manipulate covid vaccine potent example big pressure conform come group manipulate program hive mind woke control structure education apply mainstream organisation education hierarchy cult decide policy impose government cult network government impose school college university leadership impose policy teacher academic impose child student level resistance teacher university lecturer target authority oğen fire student regularly demand dismissal academic increasingly odd narrative student program believe thought student target cult consume program group think launch protest demand removal try push target student scale perceptual inversion covid programming cult impose rule psycho psychologist government shop transport company business impose staff impose customer

psychologist government shop transport company business impose staff impose customer pressure pushbacker conform cult process destroy family scan aspect society sequence time fact free woke hijack left potent example woke mentality possible deletion factual evidence education system seek produce uniform society bother fact know deletion credible history volume type highly relevant orwell say control past control future control present control past control perception past control perception future control present control perception past writing deleting history oppose imposition marxism wokeism know marxism cost 100 million life 20th century watch video read report woker generation ask basic historical question mind blow survey 2,000 people find percent millennial bear approximately early1980 early 2000 believe second world war 1939 1945 break assassination president kennedy 1963 think margaret thatcher british prime minister time office 1979 1990 post fact society provable fact defence fascism political correctness silicon valley censorship fact maĵer anymore witness covid hoax sacrifice uniqueness woke group think religion require mean think big woke

religion expression group think censorship woke religion orthodoxy defend group think censorship burn stake burn twiĵer lead eventually burn stake woke humanity regress age past big woke inversion creator funder grow traditional leğ centre political household council estate leicester 1950 60 know leğ challenge power wealth hoard elite threat freedom speech opinion day student go marche defend freedom speech today woker march deletion earth happen elite collectively cult oppose youth early life fund existence antithesis leğ hijacke brand invert stand mentality call liberal progressive act like fascist cult billionaire corporation fund control education ensure woke programming unceasing formative year child young people non woker isolate word student teacher college professor cult fund existence colossal global network woke organisation spawn promote cause cult wish list global transformation turn wokers demander think coincidence cult agenda humanity carbon sorry copy societal transformation desire

coincidence cult agenda humanity carbon sorry copy societal transformation desire woke political correctness mean cult delete public debate know win free-flow information evidence human cause climate change mean cult seek transform society globally control dictatorship impose fine detail life save planet actually need save transgender obsession prepare collective perception accept new human gender create technologically procreation human 2.0 race obsession mean cult seek divide rule population trigger racial division perception society racist opposite case perfect regard compare today racism apartheid segregation bring end civil right movement 1960s insult memory movement inspiration like martin luther king anti racism industry dominate privileged white white supremacy label privileged white people demonise poor deprived white people push tyranny marginalise destroy white people especially target dominant race number western society cult seek transform image want change society weaken undermine big group group turn come jews jew mass migration mass movement people middle east africa asia europe south united states asia australia way cult seek dilute racial cultural political influence white people western society white people ask

government appear work politically culturally bias incoming culture answer way sexually straight people man woman ask authority bias favour sexuality answer way cult want central part cult agenda central part woke agenda woke create continue fund immense degree cult billionaire corporation begin coincidence syllable stick throat billionaire social justice warrior joe biden 100 percent own asset cult wokers man white house remember long last rapidly diminish cognitive function walk step aircraǧ fall arse appear challenge shell puppet minute biden take office cult begin executive order promote woke wish list woke agenda impose severely cult agenda woke organisation activist network spawn cult fund extreme long promote cult want happen woke fund promote social justice billionaire billionaire destroy social justice social justice mantra cover dismantle social justice fund billionaire damn social

justice mantra cover dismantle social justice fund billionaire damn social justice make sense woke premier funder cult billionaire financier george soros say basically money look social consequence soros give $ 32 billion open society foundations global woke network fund black lives maĵer mass immigration europe united states transgender activism climate change activism political correctness group target white supremacy form privileged white thug dominate antifa scam deal unquestioning fact free zone woke scamme child play need pull off organisation know agent cult army naïve reframed uninformed narcissistic know nothing convince self righteousness self purity virtue soros fellow billionaire billionaire corporation pour hundred million black lives maĵer connect group promote global audience motivate care black people billionaire control exploit system leave million black people abject poverty deprivation absolutely address cult network fund blm slave trade black lives maĵer hijacke phrase challenge turn laudable concept political weapon divide society know blm fraud claim lives maĵer inclusive statement racist blm cult master want end racism means end control humanity mind colour creed culture background destroy nuclear family get end racism goal blm happen goal cult expose book decade steal child love parent give school power override parent agenda blm marxist organisation case cult create marxism blm patrisse cullors blm co

founder say 2015 video fellow organiser include co founder alicia garza train marxists lady know ağer marriage patrisse khan cullors buy $ 1.4 million home 2021 white area california black population 1.6 cent far buy high end home total $ 3.2 million

marxist bit spare blm coffer cult corporation billionaire hand good $ 100 million black people black lives maĵer work confirmation black journalist jason whitlock account suspend twiĵer simply link story marxist home buying spree say blm leader make million dollar off back dead black man spit fire alive black lies matter cult asset agency come promote blm wake death career criminal george floyd jail number time include force way home black woman raid gun point stomach floyd filme hold minneapolis street 2020 knee police officer neck subsequently die appalling thing officer technique police peaceful protestor lockdown outcry woke brigade unquestioning supporter cult agenda wokers support lockdown covid claptrap aĵacke stand tyranny impose court document later include detail autopsy floyd county medical examiner dr andrew baker conclude floyd take fatal level drug fentanyl maĵere fact free question free woke floyd death follow worldwide protest police brutality amid call defund police throw baby bathwater woke speciality wake murder british woman sarah everard green party member house lords baroness jones moulescoomb nincompoopia beĵer call 6 pm curfew man breach geneva conventions war crime ban collective punishment cross black white woke mind baroness nincompoopia far convinced self righteousness compute detail american city defund police face floyd riot ağer $ 15 million delete police budget washington dc useless woke mayor muriel bowser car- jacking rise 300 percent month capital record high murder rate 15 year happen chicago city line cult soros plan bring fear street neighbourhood reduce police release violent criminal prosecute crime mob rule agenda warn book come long shooting area minneapolis floyd arrest increase 2,500 percent compare year defunde police george floyd lead big increase

dead people black police protection politician make decision stay increase expect professional

hypocrite cult actually want abolish police want abolish local control police hand federal government psychopath advance hunger games society george floyd protest turn violent riot black store business destroy fire looting america fuel black lives maĵer woke irony want civil right loot liquor store supermarket off smart tv way race war class war black people patronise privileged black white alike tell victim white supremacy find extraordinary watch privileged black support system bloodline network slave trade parrot cult serve manipulative crap privileged white oğen billionaire associate race war class war colour diversion black senator cory booker black congresswoman maxine waters resident nincompoopia personify tell people victim devalue responsibility plight power impact reality experience instead situation whitey turn change will change change life change crucial see victim creator reality life simple sequence choice consequence different choice create different consequence choice black lives maĵer woke mafia seek dictate life wokers emotional psychological road traffic accident tell personal empowerment thing cult black lives maĵer want black people claim defend underdog create perpetuate underdog cult bad nightmare human unity go black white race economic servitude control focus divert common manipulate believe divide black tell poverty plight fault white bloke live street poverty plight experience difference plight black people white supremacist white privilege live street unite human family mutual oppressor suppressor fight oppressor white face financially deprived cult know covid agenda move new level extremism people go respond spread seed disunity stop united response evil target racist aĵack whiteness geĵe outrageous especially american democratic party appalling history anti black racism barack obama joe biden hillary clinton

nancy pelosi eulogise senator robert byrd funeral 2010 ağer nearly 60 year career congress byrd brutal ku klux klan racist violent abuser cathy o'brien mkultra say fight military negro die thousand time old glory trample dirt rise beloved land degrade race mongrel throwback black specimen wild biden call byrd close friend mentor woke hypocrite anti racist anti poor anti people perceive class illustration scale anti white racism descend seriously woke moronic new

york times contributor damon young describe whiteness virus like virus die body leğ infect go way stop locate isolate extract kill young black man consequence white man say reverse face jail sentence racism super woke numbskull senator tammy duckworth mazie hirono say object future biden cabinet appointment nominate asian americans pacific islanders mind ability candidate look like duckworth say vote racial minority vote lgbtq vote appoint people ground race illegal problem ludicrous pair message free pass situation critical race racism white child tell school intrinsically racist teach divisive critical race theory claim law legal institution inherently racist race socially construct concept white people economic political interest expense people colour white virus see racial inequality result social economic legal difference white people create race maintain white interest lead poverty criminality minority community tell white guy sleep street principal east community school new york send white parent manifesto call white traitor advocate white abolition people teach kid urgently need psychiatrist school include chart white identity range white supremacist white abolition define behaviour white people follow end regime whiteness woke black privileged white associate act exactly like slave owner old ku klux klan racist like robert byrd self- purity true racism body type state mind manifest colour creed culture racial fraud equity equality treatment opportunity equity term spin equality mean different equality true sense raising equity race boĵom level poverty equity

equality true sense raising equity race boĵom level poverty equity equity cult want human family empower blm leader like anti racist organisation continue privileged pampered existence perpetuate perception gather racism time hear anti racist anti semitism organisation act racism discrimination fall interest fund- raising power influence go professional soccer anti racism operation kick thing confirme black lives maĵer riot summer 2020 cult creation anti lockdown protest condemn period transmiĵe covid authority support mass gathering black lives maĵer supporter see self delude people claim doctor type protest non existent covid favour lockdown aĵacke protest covid support black lives maĵer keep away

protest thing joke lockdown protestor arrest oğen brutally reframe face nappies grotesque sight police officer take knee black lives maĵer cult fund marxist organisation support violent riot want destroy nuclear family white people white shucks woke obsession race display people shoot dead boulder colorado march 2021 cult own woke tv channel like cnn say shooter appear white man wokers twiĵer condemn violent white man usual mantra shooter release ahmad al aliwi

alissa anti trump arab american sigh disappointment hear five mile away mind people dead mean family race baiting maĵere sick cult serve people like barack obama exploit death divide america racial ground job cult man racist white americans first black president united states give second term bright obama filthy rich today appear big influence biden administration downtrodden black man victim white supremacy disingenuous fraud reveal contempt black people put deep south alabama accent talk blm red flag fully wake fully cult fully virtue signal professional soccer authority team take knee match support marxist black lives maĵer soccer authority club display black lives maĵer player shirt flashe electronic billboard pitch fan condemn freemasonic take knee ritual widely condemn expect woke virtue signaller professional sport fully wake medium reverse racism ban criticise race culture white people go like problem get racial harmony equality black supremacist black lives maĵer tell white people fall knee street apologise white supremacy black supremacist act like white supremacist slave owner past breach self- obsess race obsess sense self purity joe biden appoint race obsess black supremacist kristen clarke head justice department civil rights division clarke claim black endow great mental physical spiritual ability white reverse statement vilifie clarke

message problem see black white situation black figure virtuous victim head civil rights division treat civil right perception renegade mind cult agenda support woke government medium maĵer condemn censor simple racist clarke prosper despite end culture biden administration racial cultural economic bias cult require human family divide war faction see

racially segregate graduation define lens perceive racism racist mathematic racist food racist plant world famous kew gardens london say change label plant flower tell pre-'covid million visitor year racist kew director richard deverell say effort quickly decolonise collection aǧer approach ajay chhabra actor insight sugar cane link slavery plant idiot decolonisation woke manual mean colonisation society mentality extension colonisation cult witness new chinese style cultural revolution essential success marxist takeover cultural past tradition sweep away allow new culture build beĵer woke targeting long stand western cultural pillar include historical monument cancelling historical figure happen mao revolution china purge remnant capitalist traditional element chinese society instal maoism dominant ideology china western world today dominant ideology woke beĵer marxism maoism covid hoax specifically seek destroy art element western culture people meet pub restaurant close theatre music venue sport stadium place worship ban singing destruction western society criticism religion ban christianity dominant religion white numerically- dominant race christianity fade rapidly history tradition weave fabric western society delete pillar structure follow thing collapse christian defend religion religion fact end christianity turn woke usher downfall rank awash change agent know unknowing level include pope francis definitely know clueless archbishop canterbury justin welby possibly sure woke seek coordinate aĵack western culture tradition way life intersectionality define complex cumulative way effect multiple form discrimination racism sexism classism combine overlap intersect especially experience marginalise individual group wade orwellian woke speak mean coordinate disparate group common cause overthrow freedom liberal value entire structure public institution infest woke government level

liberal value entire structure public institution infest woke government level political party police military school university advertising medium trade union abomination achieve cult web appoint wokers position power baĵere non wokers line intimidation isolation threat job fire wake empathy delete vicious hostility social justice wokers desire gutless spineless

employer virtue signal wokeness corporation fille wokers

today notably silicon valley ironically woke exploit mentality cult master create fund censor enslave wokers cheer turn woke liberal leğ inversion traditional liberal leğ. campaign justice ground power wealth distribution replace campaign identity politic genuine traditional leğ take money today billionaire abuser fairness justice billionaire want fund genuine leğ.

interest division opinion day have not change cult manipulate fund identity politic division opinion today wokers non woker income bracket cult corporation billionaire take wealth disparity cataclysmic level injustice long speak language woke hand dosh woke network censor enemy billionaire damn injustice laugh till belly hurt woker close self aware transformed leğ dynamic mean wokers drone social justice fund billionaire destroy social justice world billionaire climate con encapsulate say comprehensively hoax human cause global warming detail book year cult operative organisation pump primer start climate con purpose build vehicle club rome establish cult 1968 rockefellers rothschilds centrally involve gofer frontman maurice strong canadian oil millionaire host earth summit rio de janeiro brazil 1992 global green movement expand earnest guide hand cult earth summit establish agenda 21 cult create own united nations use illusion human cause climate change justify transformation global society save world climate disaster problem reaction solution sell government medium school university generation terrifie believe world go end lifetime old people inflicte stop complete restructuring chill kid hoax restructuring precisely cult agenda demand purely coincidence course today give codename great reset update term agenda 21 associate agenda 2030 laĵer administer un vote general assembly 2015 21 2030 seek centralised control resource food right raindrop fall land demand agenda 21 establish 1992 recognise society emerge today end national sovereignty state planning management land resource ecosystem desert forest mountain ocean fresh water agriculture rural development biotechnology ensure equity state define role business financial resource abolition private

property restructure family unit blm child raise state people tell job major restriction movement creation human seĵlement zone mass reseĵlement people force vacate land dumbe education mass global depopulation pursuit united nations create trojan horse world government climate con critical importance promote outcome expect un involve oh involve right un promote agenda 21 agenda 2030

involve oh involve right un promote agenda 21 agenda 2030 justifie climate change drive climate hoax intergovernmental panel climate change ipcc world corrupt organisation ipcc lie ferociously constantly day open door global medium hang unquestioningly mendacious word green movement entirely woke long lose original environmental focus co- opt cult obsession global warming delete value scramble head experience small example mean beautiful country walk enjoy time week year path merge field forest feel natural world green organisation hampshire isle wight wildlife trust take land proceed cut large number tree include mature one install horrible big bright steel stay fence destroy atmosphere beautiful place feel nature day aĝer day walk sound chainsaw magnificent mature weeping willow tree admire cut base trunk challenge woke young girl green shirt course vandalism reply weep willow grow people pay donate hampshire isle wight wildlife trust green organisation today environmental movement know instead support system extinction rebellion dark agenda private jet climate justice cult own gates fund world economic forum founder klaus schwab emergence greta thunberg harness young climate agenda invite speak world un schwab publish book covid-19 great reset 2020 covid hoax climate hoax lay new society straight agenda 21 agenda 2030 bill gates follow early 2021 take time destroy world produce book way save gates flie world private jet admiĵe probably high greenhouse gas footprint planet personal flying gigantic bid planet big private jet operator climate change saviour fly private jet include john kerry

special presidential envoy climate actor leonardo dicaprio un messenger peace special focus climate change people bullshit corner market manure sceptical gates book avoid climate

disaster solution breakthrough need genuine aĵempt protect world obvious pile excrement aĵribute mega psychopath aim sell master plan humanity gates book shite pile klaus schwab wriĵen person use climate change covid excuse new society coincidence cult world economic forum bill melinda gates foundation promote climate hoax host event 201 pre empte simulation coronavirus hoax simulate real humanity week british royal family promote reset expect prince climate change cause war syria charles hapless son prince william say reset relationship nature trajectory species avoid climate disaster amazing promotor covid climate change control system connect gates world economic forum study early 2021 claim carbon dioxide emission fall equivalent global lockdown roughly year decade save planet study appear period schwab mob claim video lockdown destroy life billion good earth quiet ambient noise take video amid public backlash arrogant empathy delete stupidity go corinne le quéré professor tyndall centre climate change research university east anglia lead author climate lockdown study write world economic forum gates call book change aspect economy long time cult agenda human eat synthetic meat predict book cow farm animal eliminate australian tv host commentator alan jones describe carbon emission target mean farm animal australia emission reduce demand 35 percent 2030 zero 2050 let agriculture total emission agriculture 75 million tonne carbon dioxide equivalent reduce 35 percent come 50 million tonne math example 1.5 million cow go reduce herd 525,000 2030 year 58,000 cow year beef herd 30 million reduce 35 percent 10.5 million mean 1.2 million cattle year 2030 insanity 75 million sheep reduce 35 percent 26 million sheep 3 million year paris agreement 30 million beast dairy cow cattle pig sheep 8,000 minute hour decade people

dairy cow cattle pig sheep 8,000 minute hour decade people know talk clearly level campaigner politician administrator cult know outcome want face war humanity animal natural world target saying covid hoax begin plan eventually claim deadly virus able jump animal include farm animal domestic pet human book go production come story russia register world first covid-19 vaccine cat dog maker sputnik v warn pet farm animal spread

virus report say scientist warn deadly pathogen soon begin spread home farm stage infection farm domestic animal know outcome journey think mean animal eye term call zoonosis zoonotic disease transmit animal human cult want break connection animal people people people farm animal fit cult agenda transform food natural synthetic gas life kill great example cult inversion condemnation carbon dioxide dangerous pollutant gas life natural world dead dead breathe oxygen breathe carbon dioxide plant produce oxygen absorb carbon dioxide perfect symbiotic relationship cult want dismantle reason come final chapter gates schwab cult operative mindless repeater want world carbon neutral 2050 early beĵer zero carbon cry echo lunatic call zero covid carbon emission target deindustrialise world accordance cult plan post- industrial post democratic society call renewable like solar wind come close meet human energy need blackout cold inevitable texans get picture winter 2021 snow storm stop wind turbine solar panel work light go water rely electricity supply system gates want power electricity ensure master kill switch stop human activity movement cooking water warmth time like climate lie stupendously inverted claim urgently reduce carbon dioxide co2 atmosphere liĵle 400 part million optimum plant growth 2,000 ppm fall near 150 ppm natural world start die fall low 280 ppm 1880 measurement hawaii rise 413 ppm 2019 industrialisation planet green industrial period insane psychopathic madman gates satisfie block rise co2 fund technology suck atmosphere reason clear industrial era

rise co2 fund technology suck atmosphere reason clear industrial era destroy world co2 instead turn potentially disastrous ongoing fall co2 greenpeace co- founder scientist patrick moore walk away greenpeace 1986 expose green movement fear mongering lie say 500 million year ago 17 time co2 atmosphere today level fall hundred million year 150 million year co2 level earth atmosphere reduce 90 percent moore say time humanity begin unlock carbon dioxide fossil fuel 38 second midnight sense human earth salvation moore point half co2 emiĵe fossil fuel stay atmosphere remember pollution pour chimney tell carbon dioxide fact kind pollution carbon dioxide invisible gas

william happer professor physics princeton university long time government adviser climate emphasise co2 deficiency maximum growth food production greenhouse grower add carbon dioxide bit fun say warming 100 year aǧer earth emerge super cold period liĵle ice age natural warming cycle 1940 happer say peak year warming 1988 explain monster el nino natural cyclical warming pacific climate change say effect co2 compare paint wall red paint coat apply maĵer slap wall red effect rise co2 happen say volume atmosphere double increase temperature single degree climate hoaxer know invent ridiculously complicated series feedback loop try overcome devastating fact hear puppet greta go cluelessly feedback loop sun affect temperature climate denier nonsense contemplate climate graph rise temperature follow rise co2 way round lag 800 year 800 year present time hit medieval warm period temperature high industrialisation follow liĵle ice age temperature plummet world emerge century cold climate record begin make repeat line hoĵ year record begin meaningless compare like like cold period liĵle ice age correspond low period sunspot activity sun active proper scientist surprise confirm obvious fact earth temperature affected scale sun activity energetic power subsequently emit time hear climate hoaxer talk sun source earth temperature focusse co2 make 0.117 percent call greenhouse gas fraction generate human activity rest natural 90 percent greenhouse gas water vapour cloud fig 9 ban moisture notice climate hoaxer long use polar bear promotion image far extinct polar bear community stable thrive joe bastardi american meteorologist weather forecaster outspoken critic climate lie document book climate chronicles weather paĵern event claim evidence climate change happen long industrialisation happen naturally happen expect give cyclical nature climate design planet read detailed background climate hoax book shake head wonder believe crap spawn multi trillion dollar industry base absolute garbage hiv cause aids sars cov-2 cause covid-19 climate covid common give

cause aids sars cov-2 cause covid-19 climate covid common give source contradictory factor

explain reference hot climate change cold climate change get sniffle covid get sniffle covid have sniffle symptom covid have sniffle especially dangerous slow walker sheer audacity offer cambridge university study actually link covid climate change happen eventually conclude climate change play role covid-19 spread animal human wait kid group force close population grow er foundation depend bat likely zoonotic origin sars cov-1 sars cov-2 apart bat origin climate change effect bat irrelevant awe academic insight sure figure 9 idea gas life disastrously change climate insult brain point weather climate modification advanced major weather event natural earthquake come cover subject length book china openly plan rapid expansion weather modification programme include change climate area half time size india china weather manipulation ensure clear sky 2008 olympics beijing quote military document detail employ weather manipulation weapon war 1960 70 conflict vietnam operation popeye manipulate monsoon rain military purpose international treaty weather modification possible course weather energetic information change climate hoax pull covid billion believe virus exist believe human cause climate change exist cult transform global society way long plan hoax achieve preĵy way declare lie fact virus sars cov-2 human warm planet behaviour cult network foundation government academic science policy belief parrot mantra give big grant produce research confirm narrative true symptom add virus'/'climate change sound scary scientist researcher challenge narrative grant withdraw career destroy medium promote lie unquestionable truth censor alternative view evidence great percentage population believe tell lie everybody know believe masse turn mind technique endlessly human history woker big promotor climate lie covid fascism mind own cult sense self righteous self purity know bound exist bubble reality fact irrelevant way look see run like vein blue cheese control information mean control perception mean control behaviour collectively

cheese control information mean control perception mean control behaviour collectively mean control human society cult own global medium silicon valley fascist simple reason control information control perception human society examine facet cult agenda support

introduction censor push censor psychopath know follow order trot dock follow order work first time work nuremberg trial hold world public jury politician government official police compliant doctor scientist virologist cult operative gates tedros fauci vallance whiĵy ferguson zuckerberg wojcicki brin page dorsey damn lot include especially psychopath psychologist brainless gutless excuse journalist repeat lie happen allow escape justice psychological economic armageddon responsible visit human compliant unquestioning swathe humanity self obsess know ignorance wokers start god help kid god help grandkid god help will will stand gates hell will focus genetically manipulate covid vaccine meet official definition vaccine centers disease control cdc product stimulate person immune system produce immunity specific disease protect person disease basis covid vaccine vaccine maker claim stop infection transmission instead multi levelled conspiracy change nature human body mean human depopulate enormous swathe humanity shall human 1.0 cusp human 2.0

sinister reason covid vaccine detail background vaccine general government regulator test vaccine maker maker control data reveal child america give 50 vaccine dose age 69 age 19 effect combined schedule test autoimmune disease immune system aĵack body soar mass vaccine era disease general child young case vaccine target immune system government give big pharma drug company immunity prosecution vaccine death injury 1986 national childhood vaccine injury act ncvia government taxpayer fund compensation consequence big pharma vaccine criminal satanic drug giant lose vaccine schedule increase dramatically 1986 reason incentive vaccine safe big incentive money introduce ridiculously high bar prove vaccine liability government control hearing challenge compensation vaccine court far pay $ 4 billion vaccine tell safe psychopath like zuckerberg censor post say immunity law justifie ruling vaccine nature unavoidably unsafe check ingredient vaccine shock new child body try aluminium brain toxin connect dementia abort foetal tissue formaldehyde embalm corpse world- renowne aluminium expert christopher exley research health effect aluminium vaccine shut keele university uk begin take funding bill melinda gates foundation research disease

eradicate vaccine begin decline find fall begin long vaccine introduce fall plateaue ağer vaccine disease like scarlet fever vaccine decline way environmental factor perfect case point polio vaccine polio begin lead arsenate first spray insecticide residue remain food product spraying start 1892 first polio epidemic come vermont 1894 simple answer stop spray rockefeller create big pharma bejer idea polio decree cause poliovirus spread person person infect person spinal cord lead arsenate replace lethal ddt effect cause paralysis damage brain central nervous system polio plummet ddt reduce ban vaccine give credit today far big cause polio vaccine promote bill gates vaccine justice campaigner robert kennedy jr son assassinate cult ajorney general robert kennedy 2017 world health organization reluctantly admit global explosion polio predominantly vaccine strain frightening epidemic congo afghanistan

global explosion polio predominantly vaccine strain frightening epidemic congo afghanistan philippines link vaccine fact 2018 70

global polio case vaccine strain vaccine fortune cult own gates big pharma undermine health immune system population glimpse mentality big pharma cartel report wion world news international english language tv station base india expose extraordinary behaviour drug company pfizer covid vaccine wion report tell pfizer fantastic demand argentina brazil country return vaccine include immunity prosecution pfizer negligence government insurance protect pfizer law suit handing collateral sovereign asset country include argentina bank reserve military basis embassy building pfizer demand brazil form waive sovereignty asset abroad exempt pfizer brazilian law give pfizer immunity civil liability vaccine develop government funding big pharma evil incarnate creation cult hand ticket nuremberg phantom vaccine phantom disease expose covid vaccine fraud wide background cult set vaccinate man woman child planet allege new disease survival rate 99.77 percent grotesquely- manipulate figure

world health organization johns hopkins university infection death ratio 0.23 0.15 percent

accord stanford epidemiologist dr john ioannidis estimate vary danger remain tiny truth tell fake infection fake death ratio zero mind evidence present answer virus let focus moment death rate figure 0.23 percent figure include worldwide test positive test test virus die 28 day long cause cause subtract illusory covid death global datum sheet 0.23 percent think leğ zero vaccination successfully develop call coronavirus fail animal testing stage cause hypersensitivity claim protect impact disease far bad cult- own vaccine corporation get problem time bypass animal trial go straight human make length trial public rollout short away normally take five year develop vaccine cause demonstrable harm people include long term effect officially connect vaccination covid non vaccine officially produce approve maĵer month standing start reason develop covid hoax begin b base computer program natural source official non trial short government agency give emergency approval trial complete approval secure public covid vaccination actually continuation trial drug company trial schedule end 2023 time lot people go dead datum

government agency give emergency approval supply big pharma corporation form pfizer biontech astrazeneca moderna johnson johnson case vaccine nature emergency approval mean drug company prove vaccine safe effective trial way short complete government regulator believe safe effective criminal manipulation product circulation testing worth agency give approval infest big pharma connect place- people act interest big pharma cult public damn human lab rat covid vaccine produce record time pfizer biontech moderna employ technique approve use human know mrna vaccine inject synthetic version viral mrna messenger rna key term messenger body work basis information messaging communication constantly pass genetic system brain change message change state body nature change psychology behaviour way brain process information think go significant change personality perception people covid vaccine synthetic potion insider aldous huxley predict following 1961 mrna vaccine include term pharmacological method generation pharmacological method make people love servitude produce dictatorship tear speak produce kind painless

concentration camp entire society people fact liberty take away enjoy distract desire rebel propaganda brainwashing brainwashing enhance pharmacological method final revolution apologist claim mrna synthetic vaccine change dna genetic blueprint rna affect dna way round disingenuous process call reverse transcription convert rna dna integrate dna cell nucleus highlight december 2020 scientist harvard massachuseĵs institute technology mit geneticist report 40 percent mammalian genome result reverse transcription basic level messaging change sequence lead change dna receive transmiĵe communication introduce synthetic material cell change cell dna locate process know transfection define technique insert foreign nucleic acid dna rna cell typically intention alter property cell researcher sloan keĵering institute new york find change messenger rna deactivate tumour suppress protein promote cancer happen mess messaging covid vaccine maker moderna found 2010 canadian stem cell biologist derrick j. rossi aǧer breakthrough discovery field transform reprogramme stem cell neutral cell program cell include sperm cell moderna found principle

neutral cell program cell include sperm cell moderna found principle genetic manipulation produce vaccine drug genetically manipulate synthetic covid shite look mode rna modify rna important point supreme court rule genetically modifie dna complementary dna cdna synthesize laboratory messenger rna patent own psychopath cell replicate synthetic mrna covid vaccine theory body trick make antigen trigger antibody target virus spike protein dr tom cowan say see cut crap vaccine deliver self replicate synthetic material cell effect change human dna process compound synthetic material time self- replicate vaccine'-maker moderna describe mrna like soǧware cell mess body soǧware happen change soǧware computer change reason cult prepare production line mrna covid vaccine long list excuse use variant virus show exist plan transfer mrna technique vaccine give child young people cumulative consequence transformation human dna constant infusion synthetic genetic material kill change rest consider government give emergency approval vaccine vaccine approve human testing worth maker give immunity prosecution death adverse effect suffere public uk

government award permanent legal indemnity employee harm patient treat covid-19 suspected covid-19 thought possible effect vaccine effect list food drug administration guillain barre syndrome acute disseminated encephalomyelitis transverse myelitis encephalitis myelitis encephalomyelitis meningoencephalitis meningitis encephalopathy convulsion seizure stroke narcolepsy cataplexy anaphylaxis acute myocardial infarction heart aĵack myocarditis pericarditis autoimmune disease death implication pregnancy birth outcome acute demyelinating disease non anaphylactic allergy reaction thrombocytopenia disseminated intravascular coagulation venous thromboembolism arthritis arthralgia joint pain kawasaki disease multisystem inflammatory syndrome child vaccine enhance disease laĵer way vaccine potential disease far bad uk doctor freedom campaigner vernon coleman

describe condition list unpleasant death thought vaccine circumstance testament potential humanity clueless unquestioning stupidity program stupidity terminal insider speak dr michael yeadon vice president head research chief scientific adviser vaccine giant pfizer yeadon work inside big pharma stop vocal critic covid vaccine potential multiple harm include infertility woman spring 2021 go term conspiracy begin go impossible yeadon speak interview freedom campaigner james delingpole mention early say sample virus explain mrna technique originate anti- cancer field way turn off certain gene advantageous want stop cancer grow control origin unusual application yeadon say treat cancer patient aggressive procedure understandable alternative die thing use technique public health measure people involve catch infectious agent vaccinate probably die public health measure want close zero side effect find odd choose technique cut tooth field oncology worried gene base vaccine inject body spread body take cell regulator tell cell take go generate wide range response multiple step doubt cult intend yeadon say gene like body vaccine certainly gene harm want intrigue say cancer field technique turn gene off. explore process answer different gene have different function create mayhem physically psychologically turn wrong one right one off. read report experiment researcher university washington school computer science

engineering encode dna infect computer body biological computer human dna inflict damage computer computer synthetic material mess human body washington research team say possible insert malicious malware physical dna strand corrupt computer system gene sequence machine read gene leĵer store binary digit 0 1

conclude hacker day use blood spit sample access computer system obtain sensitive datum police forensic lab infect genome file level digital interaction synthetic vaccine need see picture clear later michael yeadon say sense vaccine young people danger virus benefit downside potential effect fact government think civilised rational country rain vaccine people 30 40 child 20 get letter phone call know right doctor vaccinate know right risk risk disease hope effect rare away new technology understand 100 percent population blood clot problem astrazeneca vaccine affecte young people emphasise downside risk benefit astrazeneca version produce oxford university use mrna get toxic cocktail inside cell target dna johnson johnson vaccine use similar technique produce blood clot effect extent united states pause use point gene therapy cell modification procedure vaccine truth content injection enter cell idea effect people speculate educated opinion good end maker know potion design will know consequence michael yeadon mute say doctor nhs know right come work inject people know sleep night know know position quit say know toxicology know good risk benefit yeadon speak seven university professor speak publicly university policy say counter government medical advisor afraid lose government grant intimidation silence truth level system silence people speak choice yeadon call moral coward child grandchild life bugger off leğ powerful comment relate

allege variant instil fear justify lockdown introduce vaccine say government claim variant nonsense check allege variant code 99.7 percent identical original human identity difference equivalent puĵe baseball cap off wear way round 0.3 percent difference impossible variant escape immunity original sense have new vaccine variant say 30 percent difference justifie

believe immune system recognise gates fund variant modeller vaccine'-pusher john edmunds care comment yeadon say drug company make new version vaccine variant bad say regulator world like mhra uk get agree vaccine variant similar first vaccine safety study transparently sinister yeadon say conspiracy need vaccine variant tell country shut border go hundred million arm pass regulator pick method make vaccine reason big protection virus far big project mean politician adviser willing thing thing knowingly result avoidable death happen think lockdown deprivation health care year speak people prepared result avoidable death fellow human being bother penny drop work 30 year level pure evil deal yeadon say friend associate believe evil remind stalin pol pot hitler stalin say death tragedy million statistic think benign explanation need vaccine sure regulator way wave regulator wrestle danger parent vaccine clearly shock see covid hoax begin think previously unthinkable want depopulate significant proportion world way involve destruction environment nuclear weapon poison anthrax like want plausible deniability multi year infectious disease crisis actually think come well plan work go say think rid 99 percent human wonder want hell way unstoppable folk yeadon conclude submiĵe vaccine allow kind normal life long screw tighten coerce mandate percent think rest prison camp wish wrong think point include coronavirus vaccine suddenly come time idea long term affect trial short coerce force people medical procedure nuremberg code instigate nazis people delay have vaccine quick internet search confirm mask reduce respiratory viral transmission government know smash civil society know dozen peer review study

government know smash civil society know dozen peer review study connection lockdown reduce death know personal friend elite flye go holiday public lock elite have vaccine ask vaccine target difference race say know document project new american century september 2000 say develop advanced form biological warfare target specific genotype transform biological warfare realm terror politically useful tool oh evil right absolutely sure cull old people see cdc definition mrna covid vaccine vaccine claim reduce severity symptom people

protect infection transmission lie return normal people vaccinate claim stop infection transmission allege virus change lie manipulate people jab see mask distancing require vaccinate think elderly people fragile health immune response go affected infuse cell synthetic material toxic substance know short long term devastating fatal culling old begin first lockdown continue vaccine death rate care home soar immediately resident begin vaccinate infuse synthetic material brave commiĵed

whistleblower nurse career risk expose truth rest keep head mouth shut career suppose care long time american certified nursing assistant give james post video describe emotionally happen care home vaccination begin say 2020 resident sick covid die entire year shortly aǧer pfizer mrna injection 14 people die week near death drop like flie say resident walk shot long lose ability conduct intelligent conversation home management say sudden death cause super spreader covid-19 come james ask resident refuse injection sick case inject elderly mrna synthetic potion blame illness death follow virus james describe happen care home great crime genocide country see remember nhs staff nurse early word genocide happen vaccine act human annihilation uk care home whistleblower tell similar story james effect vaccine death outbreak illness dub covid aǧer geĵe jab tell care home management staff zealously impose government regulation allow question official narrative let speak say nhs bad result reframing worker local care home live say single case covid year resident vaccinate 19 positive case week die vaccine honest obvious cause effect ignore medium public australia health minister greg hunt head strategy world economic forum admiĵe hospital aǧer vaccine suffere accord report skin infection cellulitis severe case warrant day hospital immediately authority say vaccine effect vaccine cellulitis like reaction family perfectly healthy old people die aǧer vaccine say give vaccine early alive numbskull rating off chart father die covid aged 48 take ill day aǧer have vaccine man health administrator shield pandemic leǧ house go vaccine have vaccine fall ill die qualifie possible cause effect covid-19 go death certificate family say idea catch virus family member say tragically go vaccination ultimately lead catch covid sad truth

go know come family warn people remember virus exist real stupidity nurse doctor first round vaccine collapse die end hospital bed grieve relative say

round vaccine collapse die end hospital bed grieve relative say vaccine despite happen kid mean husband return dead vaccine kill doctor vcu medical center richmond virginia say johnson johnson vaccine blame man skin peel off.

patient richard terrell say happen fast skin peel off. come off hand say sting burn itch bend arm leg painful skin swollen rub pfizer biontech moderna vaccine use mrna change cell johnson johnson version use dna process similar astrazeneca technique johnson johnson astrazeneca vaccine pause country ağer cause blood problem terrell doctor fnu nutan say die get medical ajention sound terrible nutan terrell vaccine oh recommend people nurse hospital bed 40 minute ağer vaccination unable swallow throat swelling tell doctor lose mobility arm 36 hour follow vaccination ail nurse good geĵe vaccination deal form cognitive dissonance madness public medical staff. remarkable correlation have vaccine trumpet fact suffere bad happening shortly ağerwards witold rogiewicz polish doctor video vaccination ridicule question safety intention bill gates vaccinate protect love one friend patient mention quickly info anti vaxxer anti covider want contact bill gates ridicule danger 5g. day later dead naturally vaccination mention verdict heart ajack lie lie lie member human race slip extreme state insanity unfortunately include reframe doctor nursing staff. have vaccine die minute hour consider valid connection death cause 28 day long positive test test test virus mean covid-19 go death certificate vaccine'-death connection calculated deceit figure initial rollout period february 12th 2020 reveal death report cdc ağer covid vaccine happen 48 hour man uk suffere extremely rare blood clot problem ağer have astrazeneca vaccine causal link establish say gates fund medicines healthcare product regulatory agency mhra give vaccine emergency approval pfizer executive dr michael yeadon explain interview procedure cause blood coagulation clot people risk die blood clot brain say hear medical doctor friend people suffere

skin bleeding massive headache astrazeneca shot stop 20 country blood cloĵing issue corrupt mhra european medicines agency

ema world health organization say continue give ema admiĵe rule definitively link blood cloĵing vaccine later marco cavaleri head ema vaccine strategy say clear link vaccine thrombosis know trial show vaccine safe blood clot affecte young people virtually danger covid exist make stupid sinister british government respond public alarm wheel june raine terrifyingly weak infant school headmistress sound alike head uk mhra drug regulator idea stand big pharma government pressure laughable tell way allow untested human genetically manipulate vaccine expose public first place mass lying new normal covid era mhra later say 30 case rare blood clot connect astrazeneca vaccine mean lot reality stress benefit jab prevent covid-19 outweigh risk ridiculous disingenuous statement callous disregard human health hard contemplate immediately ağer mendacious clear hospital worker denmark experience blood clot cerebral haemorrhaging follow astrazeneca jab die norwegian health official pål andre holme say vaccine common factor patient history individual powerful immune response confident antibody find cause explanation vaccine trigger stroke clot bleed brain clearly associate vaccine word mouth whistleblower report similar consequence follow vaccine tell safe number grow day clear witness human carnage learn hard way woman interview ukcolumn tell husband suffere dramatic health effect ağer vaccine good health life go liĵle unwell lose feeling leg experience excruciating pain misdiagnosis follow twice accident emergency allergy sciatica admiĵe

neurology ward doctor say condition cause vaccine seven vaccinate people apparently treat ward similar symptom woman say vaccine believe medium claim safe think government vaccine somebody believe bring vaccination safe tragic way learn lesson woman post husband transport stroke patient hospital shiğ ask vaccinate covid reply yes massive brain bleed day ağer second dose say husband report vaccinate information time doctor e ignore note appear

annoyed mention particular report verifie express common theme confirm monumental underreporting vaccine consequence interestingly vaccine brain blood clot stroke consequence begin emerge uk national health service begin publicity campaign tell public event stroke scoĵish nhs staff nurse quit disgust march 2021 say see traumatic injury vaccine getting report yellow card adverse reaction scheme treat symptom ask happen treat symptom speak dismiss like crazy crazy crazy colleague speak terrified speak video appear internet people uncontrollably shake ağer vaccine control muscle limb face scoĵish mother break severe rash body immediately ağer give astrazeneca vaccine picture horrific leigh king 41 year old hairdresser lanarkshire say life prepared experience skin sore constantly hot feel pain like worry vaccine perfectly safe effect medical staff pressure vaccine psychopathic health authority government london hospital consultant give k. polyakova write british medical journal bmj currently struggle failure report reality morbidity cause current vaccination program health service staff population level sickness vaccination unprecedented staff get sick neurological symptom have huge impact health service function young healthy day week require medical treatment team take go vaccinate mandatory vaccination instance stupid unethical irresponsible come protect staff public health voluntary phase vaccination encourage staff unlicensed product impact immediate health clearly state vaccine product offer immunity stop transmission protect health sure medical worker laud government agenda reason toss population general school america face situation close high number teacher staff bad reaction pfizer biontech moderna johnson johnson

covid vaccine link death adverse effect bmj take consultant comment preĵy quickly ground spread disinformation expose truth vaccine real reason cover breathtaking hide evidence scale vaccine death cover worldwide confirme compare official figure personal experience public hear people community die immediately soon ağer vaccine appear medium likely official total vaccine fatality adverse reaction percent estimate report see estimate low percent harvard study uk april 29th 2021 757,654 adverse reaction officially report pfizer biontech

oxford astrazeneca moderna vaccine thousand death link jab mean estimate time number reality percent reporting rate percentage seven million adverse reaction 10,000 potential death percent reporting rate time figure 1976 government pull swine flu vaccine ağer 53 death uk datum include combine 10,000 eye disorder covid vaccine 750 suffere visual impairment blindness multiply estimate reporting percentage covid case officially fall hospital virtually covid crisis begin fill range problem wake vaccine rollout number america catastrophic death link type vaccine increase 6,000 percent

first quarter 2021 compare 2020 39 year old woman ogden utah die day ağer receive second dose moderna covid vaccine liver heart kidney fail despite fact know medical issue condition family seek autopsy dr erik christensen utah chief medical examiner say prove vaccine injury cause death happen think instance autopsy vaccine official cause death anaphylaxis receive vaccine die instantaneously short difficult definitively vaccine christensen say true add estimate percent far reporting rate vaccine death reaction conclusion vaccine death reaction include covid potion phenomenally understate official figure story find endless account death reaction public medical care home staff official figure begin professional script reader dr david williams public health official ontario canada insult intelligence claim adverse reaction death 380,000 vaccine dose give bear resemblance people know happen owns circle dirk huyer charge geĵe million vaccinate ontario time chief coroner province investigate cause death include possible death vaccine aide say step investigate death evidence indicate rosemary frei secure master science degree molecular biology faculty medicine canada university calgary turn investigative journalism official figure vaccine death reaction sense say doctor seldom report adverse event people get sick die ağer geĵing vaccination aĵribute vaccine way year wonder aloud covid vaccine shot cause harm immediately brand anti vax anti science career threaten health professional huge pressure support push vaccinate billion quick time possible frei say today half million vaccine dose give people ontario rush vaccinate 15 million province september mainstream medium scream speed add slim likelihood go tell truth official people

get sick die vaccine true ontario true know authority know go happen multiple death adverse reaction uk government gates fund big pharma dominate medicines healthcare product regulatory agency mhra hire company employ ai compile project reaction vaccine uncountable request application say mhra urgently seek artificial intelligence ai soğware tool process expect high volume covid-19

artificial intelligence ai soğware tool process expect high volume covid-19 vaccine adverse drug reaction agency head disingenuous june raine give vaccine emergency approval company hire first shot give go kill maim okay oh yes perfectly fine grateful thank doctor range covid vaccine adverse reaction go page ağer page mhra criminally underreporte yellow card system include affect eye ear skin digestion blood raine mhra amazingly claim overall safety experience far expect clinical trial death adverse effect deafness blindness expect mention human tragedy expect give approval use vaccine guilty crime humanity include murder definition kill person malice aforethought recklessness manifest extreme indifference value human life people involve mhra cdc america equivalent world nuremberg trial answer callous inhumanity talk immediate effect vaccine long term impact dna synthetic manipulation main reason hysterically desperate inoculate entire global population short possible time africa develop world major focus vaccine depopulation agenda mass vaccination sale pitch underway thank caring people like rockefellers cult asset rockefeller foundation pre empte covid pandemic document publish 2010 predict happen decade later announce initial $ 34.95 million grant february 2021 ensure equitable access covid-19 testing vaccine thing africa collaboration 24 organization business government agency pan africa initiative focus

10 country burkina faso ethiopia ghana kenya nigeria rwanda south africa tanzania uganda zambia rajiv shah president rockefeller foundation administrator cia control usaid say africa mass vaccinate change dna people threat humanity fair africans rockefeller foundation say want help poor deprive people country heart vaccinate entire global population covid hoax set

achieve official decolonisation africa cult merely prelude financial colonisation road return physical colonisation vaccine vital sudden convenient death covid sceptic president tanzania see true light lot people africa aware form colonisation exploitation need stand ground vaccine work scam potential problem cult vaccine mean change human dna body messaging protect virus show exist vaccine work design work appear work people overcome lower amplification rate pcr test produce few case few death point march 2020 amplification rate test test virus artificially high generate positive test case justify lockdown world health organization recommend absurdly high 45 amplification cycle ensure high positive require cult remain silent issue january 20th 2021 biden inauguration day vaccination seriously underway day recommend ağer discussion america cdc laboratory lower testing amplification dr david samadi certified urologist health writer say encourage lab reduce cycle count pcr test say current cycle high result particle declare positive case mainstream news report see say mean number covid infection dramatically inflate oh liĵle bit cdc america issue new guidance laboratory april 2021 use 28 cycle vaccinate people timing cdc intervention cynically design appear vaccine responsible fall case death real reason see follow example new york state lab wadsworth center identifie 872 positive test july 2020 base threshold 40 cycle figure lower 35 cycle 43 percent 872 long positive 30 cycle figure 63 percent massachuseĵs lab find 85 90 percent people test positive july cycle threshold 40 negative 30 cycle

ashish jha md director harvard global health institute say shocked high boy change way need think testing shocked obvious spring 2020 medical background medical professional work shocking terrifying week ağer directive lower pcr cycle london

daily mail run headline covid case plummet new infection fall 45 30 globally past 3 week expert vaccine main driver 8 americans 13 people worldwide receive first dose acknowledge drop aĵributed vaccine soon morph medium vaccine cause case death fall pcr threshold december 2020 chaos english channel port truck driver need negative covid test board ferry

home christmas government want remove backlog fast possible bring troop testing 1,600 driver 36 test positive rest give clear cross channel guess authority think 36 away unquestioning catch amplification trick people believe absence information mainstream apply pressure refuse vaccine succumb obviously work truth exact opposite death care home soar vaccine israel term skyrocket re- analysis publish datum israeli health ministry lead dr hervé seligmann medicine emerging infectious tropical diseases aix marseille university find pfizer covid vaccine kill 40 time elderly people disease kill five week vaccination period 260 time young people die virus accord manipulate virus figure dr seligmann co study author haim yativ declare ağer review israeli vaccine death datum new holocaust mid april 2021 ağer vast number people worldwide vaccinate story change clear coordination uk government begin prepare ground future lockdown nuremberg destine boris johnson tell whopper say case fall lockdown vaccine lockdown irrelevant virus test fraudulent death certificate decide number case death study ağer study show lockdown work instead kill psychologically destroy people united states anthony fauci rochelle walensky ultra zionist head cdc peddle line lockdown answer vaccine line repeat cue moron canadian prime minister justin trudeau hysteria vaccinate lockdown vaccine difference make sense face oh cult want lockdown vaccine vaccine allow see total answer lockdown long justifie livelihood destroy variant renew upward manipulation pcr amplification plan instigate end lockdown vaccine desperate israel jewish arab population rule sabbatian cult runner impose dna- manipulate vaccine people extent jewish refuser begin liken happen

dna- manipulate vaccine people extent jewish refuser begin liken happen early year nazi germany fantastic claim government jewish people act like nazis realise sabbatian cult nazis sabbatians hate jews piece start fit question jewish government treat jews callous disregard life freedom find answer control government israel jewish sabbatian israeli lawyer tamir turgal nazi

comparison comment german lawyer reiner fuellmich lead class action lawsuit psychopath crime humanity turgal describe israeli government vaccinate child pregnant woman basis evidence dangerous evidence dangerous evidence medical experimentation turgal say breach nuremberg code medical experimentation procedure require informed consent choice think nuremberg code develop nazi experimentation jews concentration camp

people like evil belief josef mengele breach israeli government know sabbatian government intelligence military agency like mossad shin bet israeli defense forces sabbatians force nazis kaleidoscope come focus come israeli jews sue government violate nuremberg code essentially make israelis subject medical experiment controversial vaccine shocker light happen nazi germany anshe ha emet people truth israeli doctor lawyer campaigner public launch lawsuit international criminal court say head ministry health prime minister present vaccine israel begin vaccination israeli resident vaccinate advise practice take medical experiment consent require nuremberg code irony unbelievable easily explain word sabbatians foundation israeli covid apartheid green pass green passport allow jews arabs dna manipulate vaccine life work fly travel general shopping mall bar restaurant hotel concert gym swimming pool theatre sport venue non-'vaccinated ban place activity israelis liken green pass yellow star jews nazi germany force wear yellow sticker branch uk supermarket chain morrisons tell exempt mask wear display shop sensitive israeli system blatant south african style apartheid basis compliance non compliance fascism colour skin appropriate sabbatian israeli government close pre mandela apartheid regime pretoria sabbatian instigate vaccine passport israel plan sabbatians strike deal pfizer allow lead way percentage national population infuse synthetic material result catastrophic israeli freedom activist shai dannon tell chair appear beach say vaccinate health minister yuli edelstein say unwilling unable jab confer immunity leğ man liar maker claim vaccine confer immunity figure vaccine death psychopath say chance vaccine kill maim know change dna lockdown permanent fascism israeli parliament pass law allow personal information non vaccinated share local national

authority month claim supporter way encourage people vaccinate hadas ziv physicians human rights describe draconian law crush medical ethic patient right idea

sabbatians reply paper sabbatian israel lead plan global vaccine pass call green passport remain permanent lockdown restriction unable badly desperately cult vaccinate term colour green chance relate psychology fuse perception green climate hoax covid hoax solution great reset lie politician health official psychologist deny plan mandatory vaccination restriction base vaccination know exactly mean happen government country reach agreement enforce global system free denmark free sweden unveil digital vaccine certification cyprus czech republic estonia greece hungary iceland italy poland portugal slovakia spain commiĵe vaccine passport system rest include eu follow satanic uk government certainly way despite mendacious denial time writing try manipulate public have vaccine abroad summer holiday work prove synthetic toxicity inject document eu european commission move vaccine certificate 2018 2019 covid hoax begin know come abracadabra ursula von der leyen german president commission announce march 2021 eu digital green certificate green track public covid status passport sting worldwide far east follow paĵern south korea rule vaccination passport green pass able return daily life bill gates prepare passport cult operative year paper version gates fund digital taĵoo identify vaccinate taĵoo report include substance externally readable confirm vaccinate bio luminous light generate enzyme think fireflie call luciferase yes name ağer cult god lucifer light bringer come gates say fund readable taĵoo ensure child develop world vaccinate miss care poor kid know cover story develop vaccine tag system planet gates fund id2020 alliance league lovely people microsoğ gavi rockefeller foundation accenture ideo.org say interview march 2020 vaccine publicly exist world globalised digital certificate track virus vaccinate gates know start mrna vaccine come come plan tag vaccinate marginalise intelligent stop expose offere $ 10 million bribe nigerian house representatives invoke compulsory covid vaccination nigerians sara cunial member italian parliament call gates vaccine criminal urge italian president hand international criminal court crime humanity

condemn

urge italian president hand international criminal court crime humanity condemn plan chip human race know long plan agenda war criminal cult gofer tony blair case scale arrogance dark blair muster say vaccination end go route liberty blair disgusting piece work confirm medium give lot coverage bloke call charlie mullins founder london big independent plumbing company pimlico plumbers say will employ vaccinate home people vaccinate say way allow walk street vaccinate gates cheer time alert white coat plan people qualify passport have first dose follow up new one invent variant human genetic transform dead adjust change hollywood celebrity usual propaganda stunt promote call health safety rating verify building space take necessary step prioritize health safety staff

visitor stakeholder include lady gaga jennifer lopez michael b. jordan robert deniro venus williams wolfgang puck deepak chopra 17th

surgeon general richard carmona yawn health safety big connection china parent company delos head goldman sachs partner paul scialla example excuse health dictate life activity population guess confirmation safety building vaccinated people right electronic concentration camp write decade ago plan restrict travel refuse bow tyranny achieve air travel aviation industry make blanket decree vaccine guarantee income design global version china social credit system track behaviour 24/7 award delete credit base behaviour support state mean entire lifestyle eat credit score fall certain level consequence kick china ten million deny travel air train location activity deny refuser vaccine bow head government fascist new term require describe extreme guess fascist technocracy way chinese system technological technocratic control sweep west see los angeles school system plan expand worldwide child require covid'- track app scan daily enter classroom call daily pass tracking system produce gates microsoğ sure shock rigid pass scan barcode step inside body barcode information

include health check covid test vaccination entry code specific building access allow student teacher negative test test test virus symptom allege relate covid symptom range illness temperature 100 degree barcode entry plan case school kid psychologically prepare accept normal life impose school important cult gofer long time american freedom campaigner john whitehead rutherford institute exaggerate say databit databit build electronic concentration camp canada cult gofer prime minister justin trudeau take major step real thing people intern test positive test test virus arrive canadian airport jail internment hotel oğen food water long period door fail lock sexual assault interned charge $ 2,000 privilege abuse way trudeau fully board cult say covid pandemic provide opportunity global reset permanently change western civilisation number deputy prime minister chrystia freeland trustee world economic forum rhodes scholar trudeau family long servant cult big secret cathy o'brien book trance formation america horrific background trudeau father

cathy o'brien book trance formation america horrific background trudeau father pierre trudeau canadian prime minister hide fascism façade heart sleeve liberal well- hone cult technique vaccine virus show exist variant virus show exist like original computer generate fiction believe virus case death rate region 0.23 0.15 percent death concentrate old average age people die response lack threat truth psychopath idiot knowingly unknowingly answer gates cult seek vaccinate man woman child planet earth clearly vaccine covid desperation infuse genetically manipulate synthetic material mrna fraudulent excuse variant virus invention dr sherri tenpenny osteopathic medical doctor united states expert vaccine effect vehement campaigner use tenpenny board certifie emergency medicine director level trauma centre 12 year move cleveland 1996 start integrative medicine practice treat patient 50 state 17 country wean people off pharmaceutical drug interested consequence vaccine ağer aĵending meeting national vaccine information center washington dc 2000 sit day listen medical doctor scientist lawyer parent vaccine injure kid ask go vaccinate get ill father give list vaccine military sick entire life experience add question begin examine vaccine document

centers disease control cdc ağer read first 1998 version general recommendations vaccination think document poorly wriĵen bad science tenpenny begin 20 year research vaccine continue day begin research covid vaccine march 2020 describe deadly see tenpenny say first 30 day vaccine rollout united states 40,000 adverse event report vaccine adverse event database document deliver day 172 page long 40,000 adverse event 3,100 case potentially deadly anaphylactic shock 5,000 neurological reaction effect range headache numbness dizziness vertigo lose feeling hand foot paraesthesia limb fall asleep people sensation insect crawl underneath skin happen first 30 day remember percent far adverse reaction vaccine relate death estimate officially report think single product industry industry long product planet 30 day 40,000 people complain effect market get pay actor tell great get

people complain effect market get pay actor tell great get vaccine offer people $ 500 vaccine get nurse doctor go get vaccine get vaccine tenpenny say go happy dance folk begin suffer bell palsy facial paralysis neuropathy cardiac arrhythmia autoimmune reaction kill blood disorder go happy happy go picture people say tenpenny describe vaccine design killing bad initial consequence tenpenny say maybe 14 month begin ravage go happen covid vaccinate consequence take year 20 year understand consider variation covid vaccine use mrna messenger rna theory activate immune system produce protective antibody actual virus computer program isolate claim real thing instead use synthetic mrna inoculate synthetic material body technique know trojan horse absorb cell change nature dna human dna change infusion messenger rna new vaccine type change ban cult internet platform contempt contemptuous mark zuckerberg truth human health see internal facebook video leak project veritas investigative team say covid vaccine share caution know long term effect basically modify people dna rna time disgusting man facebook censor ban say exactly nuremberg trial crime humanity know censor legitimate concern deny right informed consent behalf cult own people kill damage vaccination technique cast doubt vaccine access information deny plan annual covid vaccination add deal invent variant change vaccine mrna system pfizer executive

tell shareholder virtual barclays global healthcare conference march 2021 public need dose covid vaccine plus regular yearly booster company plan hike price milk profit significant opportunity vaccine professional liar cheat opportunist tell vaccine safe give volume mrna plan infuse human body ability replicate transformation human genetic biological synthetic biological exactly long time cult plan reason die sherri tenpenny say like have button button mechanism actually trojan horse mechanism allow synthetic virus piece synthetic virus inside cell start replicate insert part dna trojan horse

ask overwhelming majority people vaccine know content reply government say stop geĵe virus government false impression purpose increase take- read sherri tenpenny detailed analysis health consequence blog vaxxter.com summary highlight statement bill gates human being vaccine manufacture machine man insane vaccine'-generated antibody carry synthetic messenger rna cell damage start tenpenny contend say lung adversely affecte vary degree pus bleeding obviously affect breathing dub covid-19 sinister impact antibody macrophage white blood cell immune system consist type 1 type 2 different function say type 1 hyper-vigilant white blood cell gobble bacteria etc circumstance fatal say affect mitigate type 2 macrophage kick calm system stop go rogue clear dead tissue debris reduce inflammation type 1 fire crew cause type 1 kill infection type 2 heal damage say punchline regard covid vaccination say mrna antibody block type 2 macrophage aĵache deactivate mean type 1 response trigger infection stop geĵe hand calm switch off- switch say follow tenpenny highlight potential autoimmune disease body aĵacke associate vaccine first appear infuse synthetic foreign substance cell cause immune system react panic believe body overwhelm invader consequence fatal autoimmune response know cytokine storm liken homeowner panic intruder pick gun shoot randomly direction turn fire immune system unleash storm inflammatory response call cytokine threat body commit hara kiri lesson mess body immune response peril vaccine seriously fundamentally mess immune response tenpenny refer consequence call anaphylactic shock severe highly dangerous allergic reaction immune

system flood body chemical give example have bee sting prime immune system make sensitive chemical people sting maybe year later immune response powerful lead anaphylactic shock

tenpenny relate shock regard covid vaccine call polyethylene glycol peg enormous number people sensitive decade use range product process include food drink skin cream medicine study claim 72 percent people antibody trigger peg compare percent 1960 allergic hypersensitive reaction gathering cause concern tenpenny point mrna vaccine coat bubble polyethylene glycol potential cause anaphylactic shock immune sensitivity report appear people react way ağer have covid vaccine think go happen humanity vaccine tenpenny say picture see people rash weepy rash big reaction arm thing like acute allergic reaction likely polyethylene glycol previously prime study conspiracy perpetrator length think make population sensitive peg puĵe vaccine coincidence instead testament carefully coldly plan current event scale conspiracy deal tenpenny explain vaccine mrna procedure breach blood brain barrier protect brain toxin crap cause malfunction case protein corrupt brain function cause amyotrophic lateral sclerosis als progressive nervous system disease lead loss muscle control frontal lobe degeneration alzheimer dementia immunologist j. bart classon publish paper connect mrna vaccine prion disease lead alzheimer form neurogenerative disease point potential affect placenta way woman infertile highly significant chapter discuss aspect non vaccine relate nanotechnology transmission injected uninjected qualified idiocy tenpenny describe research confirme vaccine'- generate antibody interact range tissue body aĵack organ include lung mean people stand get shot different symptom think cult gofer like queen tony blair christopher whiĵy anthony fauci psychopath vaccine picture see bloody chance doctor tell danger consequence covid vaccine instead encourage pressure patient shot let think moment doctor medical staff stupid lazy psychopathic financial incentive jab tenpenny people go die vaccine directly large number people go start horribly sick kind autoimmune disease 42 day maybe year go stupid doctor good get vaccine go oh mutant need extra dose vaccine vaccine

instead dose dose need stupid physician take time learn learn sit living room read 19 page

take time learn learn sit living room read 19 page paper special time remember sara kayat nhs tv doctor say covid vaccine 100 percent prevent hospitalisation death doctor idiot like profession worship infallible far medical scientific expert lie uninformed prat try hide covid era fail uk narrative repeat tv doctor hilary jones push minority proper doctor scientist speak vaccine entire edifice cult global state form government medical system corporation mainstream medium silicon valley army compliant doctor medical staff scientist willing money enhance career promote party line expert will anti vaxxer covidiot pressure vaccinate incessant report claim vaccine help cure cancer alzheimer lame walk wait announcement bring coffee morning cook tea symptom covid increase week miracle vaccine american supermarket giant kroger co. offere nearly 500,000 employee 35 state $ 100 bonus have vaccine donut chain krispy kreme promise vaccinated customer free glazed donut day rest 2021 dna change doughnut long offer incentive confirm desperation bad vaccine stunt uk health secretary maĵ prat hancock live tv ağer watch clip vaccinate roll begin hancock fake tear badly embarrassing brain britain piers morgan

lockdown support vaccine support vaccine passport- support tv host play hancock emotional say response act atrocious call school nativity presumably today include mary jesus mask wise man keep camel foot apart shepherd tent arrest system serve morgan tweet love idea covid vaccine passport flight restaurant club football gym shop etc time covid deny anti vaxxer loonie bullsh*t bluff call bar go responsible citizen aspire genius think morgan specialise shout disagree laud free speech hero lose job ağer storm off set live like child throw dolly pram free speech hero real trouble idea bullsh*t mean way throw cult desperate infuse synthetic dna change concoction lie trick intimidation question shall address believe end century use word general educated opinion alter able speak machine think expect contradict alan turing 1912 1954 father artificial intelligence expose decade plan transform human body

biological synthetic biological state new human human 2.0 plan connect artificial intelligence global ai smart grid operate global system ai control fridge heating system car mind human long human post human sub- human thinking emotional process replace ai say sound crazy science fiction understand balanced rational mind crazy today world reality put covid vaccine true context ray kurzweil ultra zionist computer scientist inventor futurist co founder singularity university singularity refer merging human machine transhumanism kurzweil say humanity connect cyber cloud period ever- recur year 2030 thinking hybrid biological non biological thinking human able extend limitation think cloud go gateway cloud brain go gradually merge enhance view nature human transcend limitation technology vastly superior small proportion human get small small small utterly negligible try sell end humanity know stage evolution super human like god lie shocked eh population especially young manipulate addiction technology design enslave life induce addiction smartphone holdable move technology body wearable begin invasion body implantable warn way plan microchippe people enter

begin invasion body implantable warn way plan microchippe people enter era divert thinking refer chip important nanochip know smart dust neural dust nanobot far small see human eye nanotechnology increasingly food product release atmosphere geoengineering sky fund bill gates shut sun save planet global warming gates fund project spray million tonne chalk calcium carbonate stratosphere sweden dim sun cool earth scientist warn disastrous weather system way predict opposition lead swedish space agency announce experiment happen plan summer 2021 show cult go dim impact sun associate plan change planet atmosphere give psychopath gates right dictate entire human race dismantle planetary system world safe man large global warming hoax sun like gas life fear essential good health human survival inversion body transform sunlight vital vitamin d process involve cholesterol cholesterol tell fear urge big pharma statin drug reduce cholesterol systematic reduce cholesterol mean reduce vitamin d uptake multiple health problem cause statins long term save government

have pay pension delivery system block sunlight widely refer chemtrail deep agenda appear first contrail condensation trail stream aircraǧ cold air high altitude contrail disperse quickly chemtrail spread sky eventually content fall earth time watch aircraǧ cross- cross clear blue sky release chemtrail look like cloudy day chemtrail contain thing harmful human natural world include toxic heavy metal aluminium alzheimer nanotechnology ray kurzweil reveal reason actually say nanobot infuse maĵer information rock tree intelligent creature deliver sky self replicate nanobot connect smart grid phenomenon morgellons disease begin chemtrail era correlation lead dub chemtrail disease self replicate fibre appear body pull skin morgellons fibre continue grow outside body form artificial intelligence cover great length

phantom self vaccine operate system covid vaccine self replicate synthetic material design connection humanity kurzweil cloud american doctor dedicated campaigner truth carrie madej internal medicine specialist georgia 20 year medical experience highlight nanotechnology aspect fake vaccine explain component moderna pfizer synthetic potion lipid nanoparticle like liĵle tiny computer bit sci-fi substance know nanobot hydrogel trigger moment deliver payload act biosensor synthetic substance ability accumulate datum body like breathing respiration thought emotion kind thing syringe carry million nanobot substance like little bit computer body crazy true obviously ability act wi fi receive transmit energy message frequency impulse issue address company human imagine get substance react thing 5 g smart device phone happen trigger like impulse frequency completely foreign human madej say research reveal electromagnetic emf frequency emiĵe phone device increase dramatically period vaccine rollout see people radiation problem 5 g electromagnetic technology expand introduce school hospital say floore emf come off device check make total sense sync work decade think moderna refer document mrna vaccine operate system recognize broad potential mrna science set create mrna technology platform function like operate system computer design plug play interchangeably different program case program app mrna drug unique mrna sequence code protein mrna medicines software life concept new mrna

medicine begin research fundamental component place generally thing change potential mrna medicine code region actual genetic code instruct ribosome protein utilize instruction set give investigational mrna medicine software like quality ability combine different mrna sequence encode different protein single mrna investigational medicine need real virus create computer version justify infuse operate system entire human race road make living breathe people cyborg miss vaccine digital connection synthetic material body highlight early study hack computer human dna level body digital base mathematical code chapter ridiculously claim mrna vaccine design change human genetic explain word dr tal zaks chief

design change human genetic explain word dr tal zaks chief medical officer moderna 2017 ted talk say 30 year live phenomenal digital scientific revolution today tell actually hack software life change way think prevention treatment cell thing call messenger rna mrna short transmit critical information dna gene protein stuff critical information determine cell think operate system change introduce line code change line code turn profound implication flu cancer zak accurately say profound implication human genetic code nature dna communication body way hey covid vaccine affect genetic cult fact checker man help develop mrna technique say zaks say 2017 think try take information understanding information information transmit cell take understanding medicine drug fuse think information therapy write decade body information field communicate wide world radiation information change information field body mind phenomenon like 5 g change nature function information therapy mean change body information field change way operate dna receiver- transmiĵer information mutate information like mrna synthetic messaging technology ready wait underground basis secret project roll covid hoax play trial short irrelevant duration public consumption vaccine experimental true appear experimental know go trial ensure cult get result desire zaks say take decade sequence human genome complete 2003 week mean scientist operate public domain secret project sequence genome week long 2003 deluge mrna highly significantly moderna document say guide premise mrna medicine work disease work disease leverage

flexibility afforde platform fundamental role mrna play protein synthesis pursue mrna medicine broad spectrum disease moderna confirme say 2020 multiple vaccine plan covid later invent variant previous vaccine convert mrna system infuse body massive amount genetically manipulate synthetic material secure transformation synthetic biological state vaccine design kill stunning number long expose cult depopulation agenda transform rest give goal appreciate hysterical demand human vaccinate allege disease estimate infection death ratio 0.23 0.15 percent write child give

estimate infection death ratio 0.23 0.15 percent write child give vaccine trial parent disgrace young people offere vaccine virus believe exist virtually zero chance harm

horrific effect trial 12 year old girl reveal family member brain gastric problem include bowel obstruction inability swallow liquid solid unable eat drink throw extreme pain neck abdomen paralyse waist stop urinate unaided girl first take hospital doctor say mind sign trial parent word suffice covid vaccine insanity make sense vaccine body- changer synthetic biology synbio fast emerge expand scientific discipline include genetic molecular engineering electrical computer engineering synthetic biology define way multidisciplinary area research seek create new biological part device system redesign system find nature use mixture physical engineering genetic engineering create new synthetic life form emerge field research aim combine knowledge method biology engineering related discipline design chemically synthesize dna create organism novel enhance characteristic trait synthetic organism include human synthetic blood skin organ limb develop synthetic body part produce 3d printer element synthetic human programme comment kurzweil co founder singularity university peter diamandis see new light covid hoax sanction refuse vaccine anybody go resist progress forward transhumanism go resist evolution fundamentally die matter good bad go happen resist evolution absolute bollock arrogance people limit go happen mantra way say resistance futile break spirit push fall geĵe genetically- transform vaccine crucial cult plan total control

desperation achieve clear vaccine passport major factor form resistance futile paper fund rockefeller foundation 2013 health conference china interact artificial intelligence use robotic bio engineering augment human functioning underway advance engineering human potentially separate unequal form genetic engineering mix human robot raise debate ethic equality new demography project emerge 2030 year technology robotic genetic engineering nanotechnology produce robot engineer organism nanobot artificial intelligence ai self replicate debate grow implication impending reality human design life happen today long plan world army enforce world government intend robot army human today military technologically enhance troop pilotless plane driverless vehicle stepping stone end human soldier cult fodder

plane driverless vehicle stepping stone end human soldier cult fodder time wake work freedom population instead destruction family destruction police join let sort phenomenon enforce destruction widespread covid era woker luvvie acting entertainment industry support covid rule destroy profession public sign door business close covid stay safe reopen form masochism transgender = transhumanism explode suddenly cult agenda tidal wave claim demand infiltrate aspect society heading transgenderism term trans dictionary definition prefix mean occur loanword latin particular denote movement conveyance place place transfer transmit transplant complete change transform transmute form adjective mean cross go place name transmontane transnational trans- transgender mean gender transhuman mean human aspect cult plan transform human body synthetic state gender human 2.0 design procreate produce technologically need parent new human mean end parent man increasingly woman target deletion right status parental right disappear quicken speed reason new human need man woman procreation gender transgender movement appear permanent state frenzy contemplate transgender right interim excuse confuse gender particularly young road fuse gender transgender activism end means end technique creative destruction destroy status quo build bejer form want gender status quo destroy persuade cult

create woke mentality believe 100 gender programme 9 12 year old produce cult own bbc promote 100 gender narrative idea monumental nonsense true count people believe true gender 2 + 2 = 4 dismantle indoctrination intimidation 2 + 2 = 5 new gender normal place human 2.0 aldous huxley reveal plan prophetic brave new world natural reproduction away child create decant raise hatchery conditioning centre birth people genetically design fit caste split plus minus member design fulfil predetermine position social economic stratum world state huxley know 1932 reason george orwell know big brother state 1948 cult insider quote know 1969 know early 1990 connect cult work ball off uncover plan predict future process simple plan

work ball off uncover plan predict future process simple plan world intervene stop happen communicate plan ahead time perceive predict future reveal plan intervention human future reason alert people inspire intervention maybe time come cult intention obvious brain work order future technological womb huxley describe replace parent procreation develop project know public arena israeli scientist tell times israel march 2021 grow 250 cell embryo mouse foetus fully form organ artificial womb development pave way gestate human outside womb professor jacob hanna weizmann institute science say take mouse embryo mother day development 250 cell incubator day day 11 point grow organ day 11 blood beat heart fully develop brain anybody look clearly mouse foetus characteristic mouse go ball cell advanced foetus special liquid nourish embryo cell laboratory dish float liquid duplicate first stage embryonic development incubator create right condition development hanna say liquid give embryo nutrient hormone sugar need custom electronic incubator control gas concentration pressure temperature cuĵing edge underground basis secret location light year ahead report london guardian 2017 approach biotechnological breakthrough ectogenesis invention complete external womb completely change nature human reproduction april year researcher children hospital philadelphia announce development artificial womb article head artificial womb soon reality mean woman mean child big question mother bond machine preparation

life soulless interaction control world govern machine matrix movie observe calculated manipulation covid hoax human interaction warmth curtail distancing isolation fear people communicate machine scale see dot picture personal assistant gadget child toy kid adult communicate ai human ai voice sat- nav include thing psychological preparation cult endgame physical connection ai psychological connection people condition gather human ai interaction movie tv programme depict transhuman robot dystopia relate phenomenon know pre emptive programming world plan portray movie tv advertising condition conscious subconscious mind familiar plan reality dilute resistance happen real shock change young

familiar plan reality dilute resistance happen real shock change young child road transgender transition surgery puberty block drug age able life change rachel levine professor paediatric psychiatry believe treat child way america highest- rank openly transgender official confirme assistant secretary department health human services ağer nominate joe biden cult activist government press law deny parent child transition process kid isolate manipulate agree irreversible medical procedure canadian father robert hoogland deny bail vancouver supreme court 2021 remain jail breach court order stay silent young teenage daughter minor offere life change hormone therapy parental consent age 12 girl school counsellor say transgender refer doctor tell school treat like boy example state serve school impose control child life parent contemptible extreme child abuse happen world cult gender fusion operation go warp speed war man woman question artificial womb mean woman rightly ask answer see deletion woman right involve sport changing room toilet status favour people male body claim identify woman identify mountain climber mean climb mountain biological man biological woman believe triumph belief factual reality perceptual basis woke woman sport destroy allow male body identify female compete girl woman male body woman dominate woman competition great muscle mass bone density strength speed disadvantage sport woman lose meaning perspective nearly 300 american high school boy run fast quick woman sprinter world woman see previously protect space invade male body simply claim identify woman need access

woman space activity biden equality act destroy equality woman usual orwellian woke inversion male sex offender commiĵe rape woman prison ağer claim identify woman transfer maĵer woke equality hypocrite maĵer cult manipulator funder transgender activist advance gender fusion way gender human seek impose transparent nonsense like covid hoax way nonsense prevail censorship intimidation dissenter deletion factual information programming unquestioning bewildered naive scan world long thing happen woman right organisation

bewildered naive scan world long thing happen woman right organisation realise right status take long time secure erode systematic kara dansky global women human rights campaign say biden transgender executive order immediately take office subsequent order equality act legislation follow seek erase woman girl law category exactly say long ago start war man woman play crucial go turn war cult phase male female gender away bring conflict busy fighte cult complete job unity response unity people unity need unity transgender town big step gender human right transgender people woke political correctness delete word relate gender end woker believe inclusive opposite true delete word describe gender gender delete human 2.0 term like man woman mother father delete university institution replace gender trans gender individual guardian woman right campaigner maria keffler partners ethical care say child teach kindergarten upward boy vagina girl penis kid gender want believe suddenly country world time idea have drag queen school read transgender story young child local library coldly calculate confusion gender way fusion gender suzanne vierling psychologist southern california important yesterday slave woman endure gynecological medical experiment today girl- child butcher boom gender transition sector ovary remove push menopause osteoporosis uncharted territory parent right authority erosion parental right common theme line cult plan erase concept parent ovary remove push menopause mean bear female lose ability child way discontinue humanity know eliminate human 1.0 eye pave way human 2.0 phase human 1.0 happen plummet sperm count make woman infertile onslaught chemical radiation include smartphone pocket man mrna vaccine common agriculture

pesticide have devastating impact human fertility track collapse sperm count book long time 2021 come book fertility scientist reproductive epidemiologist shanna swan count modern world threaten sperm count alter male female reproductive development imperil future human race report global fertility rate drop half 1960 2016 america birth

report global fertility rate drop half 1960 2016 america birth rate 16 percent need sustain population woman experience decline egg quality miscarriage couple suffer infertility finding increase erectile dysfunction infant boy develop genital abnormality male problem conception plunge level male hormone testosterone explain man lose backbone masculinity evident covid hoax woman prominent pushbackers big strapping bloke bow head cover face nappy quietly submiĵe mind control expert cathy o'brien point global education introduce concept winner sport classroom competition defuse turn defuse sense fighte version equity doctrine drive raise contrast cult control china global ambition government publish plan january 2021 cultivate masculinity boy kindergarten high school face masculinity crisis government adviser say boy soon delicate timid effeminate action take expect similar policy target west 2006 study show 65 year old man 2002 testosterone level 15 percent low 65 year old man 1987 2020 study find similar story young adult adolescent man geĵe prescription testosterone replacement therapy cause great drop sperm count 99 percent see sperm count drop zero treatment sperm defective malfunction have head pursue egg class synthetic chemical know phthalate blame decline find plastic shampoo cosmetic furniture flame retardant personal care product pesticide canned food receipt till receipt touch let delude systematic advance long time agenda human body transformation phthalate mimic hormone disrupt hormone balance cause testosterone fall genital birth defect male infant animal fish affecte way phthalate toxin river fish turn gay change sex chemical river stream pointer increase gay people sexually confused maĵer sexuality people choose affected chemical pollution consumption need know think connect transgender agenda war man condemnation male toxic masculinity watch follow toxic femininity happen breastfeeding chest feeding pregnant

woman pregnant people woke claptrap know world go insane cult scam progress transgender activist promote cult agenda cult billionaire support fund insanity laugh sleep sheer stupidity human infamous

billionaire support fund insanity laugh sleep sheer stupidity human infamous galaxy far far away covid vaccine female infertility vaccine connect potential infertility woman dr michael yeadon vice president chief scientific advisor pfizer dr wolfgang wodarg germany file petition european medicines agency december 2020 urge stop trial pfizer biontech shot mrna trial study particularly concerned possible effect fertility vaccine'-produced antibody aĵacke protein syncytin-1 responsible develop placenta result infertility indefinite duration woman vaccine placenta fail form section 10.4.2 pfizer biontech trial protocol say pregnant woman mrna shot section 10.4 warn man take mrna shot abstinent heterosexual intercourse donate sperm uk government say know mrna procedure effect fertility know people jail uk government advice recommend start pregnant woman shot say avoid pregnancy month ağer vaccination advice later update pregnant woman vaccine benefit outweigh risk mother foetus hell suppose mean spontaneous abortion begin appear rapidly increase adverse reaction reporting scheme include fraction adverse reaction thousand grow number vaccinate woman describe change menstrual cycle heavy blood flow irregular period menstruate ağer go menopause link reproduction effect woman pass blood clot lining uterus man report erectile dysfunction blood effect significantly unvaccinated woman begin report similar menstrual change ağer interaction vaccinate people man child affecte bleed nose blood clot condition shedding vaccinated people emit content vaccine affect unvaccinated different vaccinated people shed live virus allegedly vaccine fake covid vaccine involve synthetic material toxicity doctor expose happen prefer term transmission shed shot transmîĵe effects dr carrie madej say nano content vaccine act like antenna fit perfectly conclusion vaccine transmission phenomenon know book go production deal postscript vaccine effect sterility know world health organization accuse 2014 sterilise million woman kenya evidence confirme content vaccine involve covid hoax

admiĵe involvement year vaccine programme country similar claim charge lodge tanzania nicaragua mexico philippines gardasil vaccine claim protect genital virus know hpv

mexico philippines gardasil vaccine claim protect genital virus know hpv link infertility big pharma thing criminal satanic entity bill gates foundation connect funding shared interest 20 pharmaceutical giant laboratory stands accuse direct policy

united nations children fund unicef vaccine alliance gavi grouping advance vaccine agenda silence opposition great cost woman child time gates want reduce global great reset = smart grid = new human cult agenda expose 30 year openly promote cult asset like gates klaus schwab world economic forum code term like great reset build beĵer rare narrow window opportunity reflect reimagine reset world provide rare narrow window opportunity covid hoax create book long ago warn plan internet things iot implication human freedom plan connect technology internet artificial intelligence today way road estimate 36 billion device connect world wide web figure project 76 billion 2025 warn cult plan internet human brain connect ai internet kurzweil cloud cult operative like schwab call precisely term internet bodies fusion physical digital biological centrally control smart grid system cult refer fourth industrial revolution talk biological mean synthetic biological require fully integrate human body brain smart grid artificial intelligence plan replace human mind synthetically manipulate include natural world gmo smart dust food eat human body synthetic vaccine say answer cult push synthetic meat replace animal february 2021 predictable psychopath bill gates call introduction synthetic meat save climate change climate hoax keep give like covid hoax war meat vegan activist carbon oops sorry copy manipulation transgender activist idea inner core promote impose agenda cult vehicle reason choose eat meat respect support right ulterior motive power forbes article december 2019 highlight plan beloved schwab cult heading internet bodies change world article say human body late datum platform remember vaccine operate system forbes describe plan accurately word come straight book long internet bodies

iob extension iot basically connect human body network device ingest implant connect body way connect datum exchange body device remotely monitor control describe human hive mind human perception centrally dictate ai connection allow people remotely monitor control

perception centrally dictate ai connection allow people remotely monitor control fridge human mind direct central point insane psychopath covid vaccine crucial forbes explain process mention early holdable wearable technology follow implantable article say generation internet bodies body external wearable device apple watches fitbits monitor health body internal include pacemaker cochlear implant digital pill inside body monitor control aspect health body embed generation internet bodies embed technology technology human body meld real time connection remote forbes note development brain computer interface bci merge brain external device monitor control real time ultimate goal help restore function individual disability brain signal conventional neuromuscular pathway oh fuck off.

goal brain interface technology control human thought emotion central point hive mind serve master wish people agree chip open door key recognise wear mask social distancing line vaccine cult plan great reset money system ağer complete demolition global economy money exchange communication body operate system rand corporation cult own think tank say internet bodies iob internet bodies technology fall broad iot umbrella suggest iob device introduce intimate interplay human gadget iob device monitor human body collect health metric personal information transmit datum internet device fitness tracker use iob device development track record store user whereabout bodily function hear think schwab world economic forum long winded way say fascism cult go internet bodies covid era enter era internet bodies declare collect physical datum range device implant swallow wear result huge health relate datum improve human wellbeing world prove crucial fighte covid-19 pandemic think clown care human wellbeing ağer death devastation pandemic hoax purposely cause schwab co forward internet bodies keep track symptom help stop spread infection quickly

detect new case wonderful keep track bother researcher investigate datum gather smartwatche similar device viral infection alert track user heart rate breathing schwab say 2018 book shape future fourth industrial revolution line technology being blurred ability create lifelike robot synthetic instead ability new technology literally technology influence understand think determine reality technology deep access part begin integrate digital technology game hour control people know ping circulation obvious rush global fascist dictatorship complete submission humanity lock away cult induce perceptual coma smart grid control centre human body transform vaccine way synthetic cyborg aĵache global smart grid control central point sub- location grid manipulation plan china start cult big centre operation technological control system technocratic rule incubate unleash world ağer covid hoax come china 2020 smart grid location surprise people

new israel expose trigger sabbatian technocrat intelligence military operative horror 9/11 ` 19 arab hijacker manifest ability pilot big passenger airliner instructor puddle jumping flye school describe joke 9/11 aĵack possible control civilian military air computer system white house pentagon connect agency trigger blow mind control coordinate force sabbatian network israel united states infiltrate entire government military intelligence system real american deep state sabbatian state israel tiny country million people global centre cyber operation fast catch silicon valley importance cult israel know start nation cyber company spawn sabbatian specialisation cyber security mention early give company access computer system client real time backdoor wriĵen coding security soğware download sabbatian centre cyber operation outside silicon valley israeli military cyber intelligence unit big infrastructure project israel history headquarter desert city beersheba involve 20,000 cyber soldier locate literal army internet troll scan social medium forum comment list challenge cult agenda uk military similar 77th brigade associate operation beersheba complex include research development centre cult packard cisco systems facebook motorola techcrunch.com run article beersheba global internet technology centre headline israel desert city beersheba turn cybertech military

massive relocation prestigious technology unit presence multinational local company close proximity ben gurion university generous government subsidy turn beersheba major global cybertech hub beersheba ingredient vibrant security technology ecosystem include ben gurion university graduate program cybersecurity cyber security research center lockheed martin future home incb israeli national cyber bureau offer special income tax incentive cyber security company site relocation army intelligence corps unit

sabbatians take cyber world following process scan school likely cyber talent develop ben gurion university period conscription israeli defense forces station beersheba complex cyber talented officially leave army fund start cyber company technology develop give state steal backdoor computer system world america list send off silicon valley start company join major one major position fille apparently jewish sabbatian operative google youtube facebook run jewish ceo twiĵer run ultra zionist hedge fund shark paul singer centre sabbatian global cyber web israeli army unit 8200 specialise hack computer system country insert virus gather information instigate malfunction take control distance long list sabbatians involve 9/11 silicon valley israeli cyber security company operative unit 8200 israel cult israel plan smart grid hub china happen beersheba benefit jewish people treat disgustingly sabbatian elite control country glance nuremberg codes tell story big covid important take time strap control cult awake arise forever fall'n john milton paradise lost expose far level cult conspiracy operate world seen global secret society satanic network operate shadow step seen story go deeply covid hoax major cult agenda grasp big picture expand aĵention realm human sight infinity possibility ultimately humanity manipulate state total control force dictate action cult reality damn answer appear space eye survey observe liĵle truth human world tiny band frequency body visual perceptual system decode perception world accord mainstream science electromagnetic spectrum 0.005 percent exist universe fig 10 maximum estimate see 0.5 percent way miniscule far far small 0.005 percent compare reality totality reality new information visible light band frequency fraction 0.005 percent fig 11 overleaf realise universe

infinite universe universe fragment overall reality infinite reality compare infinitesimal frequency band visible light human sight human near blind possible actually artist filmmaker sergio toporek figure 10 human perceive tiny band visual reality laughable figure 11 smear 0.005 percent electromagnetic spectrum

visual reality laughable figure 11 smear 0.005 percent electromagnetic spectrum know yep make sense consider 1 electromagnetic spectrum hear 1 acoustic spectrum 90 cell body carry microbial dna atom body 99.9999999999999999 space one bear human being 46 chromosome potato existence rainbow depend conical photoreceptor eye animal cone rainbow exist look rainbow create pretty amazing especially consider beautiful colour represent 1 electromagnetic spectrum suddenly world human look different place account planet earth compare project size single universe equivalent billionth pinhead imagine ratio compare infinite reality think christianity insist earth humanity centre background vital go appreciate nature human manipulate unseen force human visual reality virtually unseen prevail perception institution public touch hear taste smell exist perception indoctrinate encourage cult agent isolate believer strictly limited village idiot realm five sense perception firewalle information control perpetuate world insanity indoctrinate believe delusion major player influencer know official reality laughable science academia medicine believe nonsense peddle teach succeed generation challenge orthodoxy dismiss nuĵer freak protect manufacture illusion exposure observe dynamic covid hoax take form inner circle psychopath know gigantic scam entirety impose fascist rule believe covid tell ask people place birth location job family background life story experience difference absolutely crucial true eternal infinite consciousness state aware forget form vehicle brief experience consciousness come brain brain symbolic literal awareness pure awareness withdraw body death continue eternal beingness isness realm reality limitlessness infinity biblical mansion father house label human life man woman transgender black white brown nationality circumstance income awareness experience brief connection band frequency human label self use title book phantom self

david icke bear leicester england april 29th 1952 consciousness have experience cult non human master seek convince institution education science medicine medium government experience easy control direct perception lock away bewildered illusion five sense humanity aware true self true power consciously create reality experience

humanity aware true self true power consciously create reality experience possible day day perceive liĵle power impact life world life experience reflect hand power think authority form use control experience turn appear confirm perception liĵle self fulfille feedback loop liĵle perception big infinite cult forget prevail manipulate pressure self identify human label consciousness awareness experience human phenomenon identity politic cult instigate manipulation technique sub divide previous label small one united states university employ list leĵer describe student identity lgbttqqfagpbdsm lesbian gay bisexual transgender transsexual queer question flexual asexual gender fuck polyamorous bondage discipline dominance submission sadism masochism sure list long people feel need self identity minutia race sexual preference woker program cult generation believe inclusivity cult lock away small small version phantom self firewalle influence true self infinite eternal notice philosophy contend unique point aĵention awareness infinite oneness ultimate non racism sense oneness make judgement people body type colour sexuality uĵerly ridiculous confirm racism understanding reality include anti white racism despite perception life cult agent fast asleep wokers label racist discredit information phenomenally racist sexist race sexuality judge people good bad demon untouchable race sexuality phantom self perceive term phantom self pawn puppet cult agenda focus aĵention self identity five sense play identity divide rule columbia university introduce segregated graduation version social distancing design drive people apart teach different racial cultural group common thing cult want unity pump- primer cult operative knowledge phantom self blind common consciousness have different temporary experience human yes human suppose right mean human true human experience break basic human way information process experience interact band frequency world vehicle

operate band frequency consciousness prime form way frequency human realm consciousness awareness tap key pick cup way radio station interact radio station b different frequency human body mean interaction long describe body biological computer process information way

mean interaction long describe body biological computer process information way allow consciousness experience reality body receiver transmiĵer processor information particular way human visually perceive world five sense wakened state limit body visual decoding system truth visual way experience visual reality come moment human body process information source human reality behaviour system perceive human elephant act like elephant like human duck elephant biological computer different information field process information accord program visual behaviour type elephant apply reality body information field perpetuate procreation like make copy soğware program cult want break cycle intervene technologically transform human information field change humanity change human information field change way field process information change humanity physically psychologically messenger information rna vaccine target human genetic change body information messaging construct food drink radiation toxicity mean reality experience like reality way reality people experience virtual reality game reality live game decode source information appear reality world information construct simulation later base form reality wavefield information theme wi fi five sense decode wavefield information electrical information communicate brain decode holographic illusory physical information different part brain specialise decode different sense information fuse reality appear outside inside brain genetic structure general fig 12 overleaf dna receiver transmiĵer information vital decoding process body connection reality change dna change way decode connect reality covid vaccine think computer decode wi fi information encode radiation field computer decode information different form screen wi fi information manifest screen information screen inside computer outside describe decode human world five sense decode waveform

wi- fi field electrical signal brain computer construct reality inside brain outside look rainbow create sound simple example hear sound brain decode waveform sound wave pick hearing sense communicate brain electrical form decode sound hear hear inside brain feel smell taste word language waveform field generate vocal chord pass process decode brain word hear

field generate vocal chord pass process decode brain word hear different language different frequency field sound wave generate vocal chord late british philosopher alan waĵs say figure 12 brain receive information sense construct brain world devoid light heat weight solidity motion space time imaginable feature phenomenon interaction transaction vibration certain arrangement neuron exactly scientist robert lanza describe book biocentrism decode electromagnetic wave energy visual physical experience use example

flame emíĵe photon

electromagnetic energy pulse electrically magnetically invisible electromagnetic wave strike human retina wave happen measure 400 700 nano meter length crest crest energy right deliver stimulus 8 million cone shaped cell turn send electrical pulse neighbour neuron line go 250 mph reach occipital lobe brain head cascade complex neuron fire incoming stimulus subjectively perceive experience yellow brightness occur place condition external world hear decode tree fall building collapse noise decode energetic wave generate disturbance sound fall tree noise hear decode reality frequency field information operate overall wi fi field field vibrational disturbance generate field field fall tree building disturbance wave decode sound fall noise reality create observer decoder perception observer affect decoding process reason different people different perception perceive reality situation different way perceive nightmare opportunity question cult focused control human perception answer experience reality act decoding experience wi fi decode computer screen sight sound internet video encode wi fi hear computer decode information taste smell touch phenomenon brain result

process taste smell feel brain pain relief technique seek block signal site discomfort brain brain decode signal feel pain pain brain appear point impact thank feedback loop electrical information sight sense decode area brain area damage blind eye perfectly okay blind damage eye damage information processing waveform visual information visual decoding area brain information reach brain form decode visual reality represent brain decode fraction information receive rest absorb sub conscious mind explanation science magazine second 11 million sensation crackle brain pathway brain confront alarming array image sound smell rigorously filter leave manageable list 40 40 sensation second perceive reality world people tell believe inner circle cult know illusory physical reality smear 0.005 percent universe vast array universe mansion infinite reality brain decode 40 piece information sensation potential 11 million receive second point strike immediately sheer breathtaking stupidity believe know rigidly know

point strike immediately sheer breathtaking stupidity believe know rigidly know potential process manipulate malevolent force control reality population thing sure risk contradiction perceive indescribable fraction infinite reality know tidal wave ancient greek philosopher socrates right say wisdom know liĵle know obviously true think experience physical world solidity physical solid world apartness connect cult control science dismiss so- call paranormal phenomenon relate para'-normal perfectly normal explain allege great mystery dumbfound scientific mind reason scientific mind term mainstream material mind five sense mind imprison touch hear smell taste phenomena happening explain way leave scientific mind bewildered rule account happen definition happen beg differ telepathy thought wave pass field think wave disturbance decode able connect wavelength information example pick thought wave friend distance bring mind minute later friend call god incredible think ah think decode native people entrap five sense reality know bush telegraph know dimension reality mind maĵer come fact maĵer mind state influence state illusion aspect field paranormal phenomenon explainable consider mystery happen road understanding begin expand

awareness five sense nightmare figure 13 hologram solid good one appear figure 14 hologram create capture waveform version subject image reality solid holographic aware hologram widely today dimensional information decode dimensional reality solid appear fig 13 hologram create laser divide part go directly holographic photographic print reference beam take waveform image subject working beam direct print collide half laser fig 14 create waveform interference paĵern contain wavefield information photograph fig 15 overleaf process liken drop pebble pond wave generate spread water collide create wave representation stone fall speed weight distance waveform interference paĵern hologram akin waveform information field five sense decode electrical signal decode

brain holographic illusory physical reality way laser think human aĵention direct waveform interference paĵern dimensional version subject project apparently solid reality fig 16 amazing trait hologram reveal paranormal mystery information hologram encode waveform interference paĵern way create mean hologram small version cut interference wave paĵern will part image quarter sized version image body hologram apply basis acupuncture reflexology form healing identify representation body part hand foot ear skilled palm reader information body encode hand concept come figure 15 waveform interference pattern hold information transform figure 16 holographic people include elvis holographically insert sing duet question ask solidity illusory walk wall resistance solid solid electromagnetic field electromagnetic field decode experience solid solid underestimate power belief dictate reality believe impossible belief impact decoding process will decode think impossible believe perceive perceive experience do impossible like firewall computer system will screen firewall block vital understand human experience hijacke explain answer need know tell book long list mystery paranormal phenomenon mysterious perfectly normal realise reality work ghost see pass solid wall wall solid ghost discarnate entity operate frequency different wall like radio station share space interfere see ghost apartness people object illusion connect field like sea life connect sea limit visual reality holographic information field information connect holographic

world manifest holographic object field connect appear unconnected way computer see wi fi know hurt okay return world human society cult global network interconnect secret society satanic group manipulate government corporation medium religion etc fundamental difference knowledge idea humanity ignorant plan total enslavement underpin crucial ignorance reality interact human interaction expand eternal consciousness five sense

body experience mean world term five sense world relation great consciousness perspective state experience small picture five sense wide context big picture awareness five sense way five sense dot expanded awareness connect picture paĵern context apparently random unconnected context expand awareness five sense apartness randomness apparently meaning cult dimensional controller seek intervene frequency realm five sense reality suppose connect expand reality apart final chapter happen five sense mental emotional process

long influence expand awareness true instead drive isolated perception body decode system world human plight humanity potential infinite awareness easily manipulatable descend extreme stupidity cult isolate five sense mind expand awareness program mind perception belief control information mind receive education system formative year medium perceptual bombardment censorship entire lifetime limit perception sense possible limit knowledge limit skew information censor discredit set people free title book say truth shall set free reason thing cult want circulation truth especially reality eternal desperate control information cult know information perception behaviour collectively human society cult control fund mainstream science deny existence eternal seek dismiss trash evidence contrary cult control mainstream religion version god liĵle system control dictatorship employ threat damnation ağerlife control perception behaviour fear guilt true cult wish suppress expression point aĵention infinite state consciousness real meaning term god perceptual obsession physical body five sense mean god personifie bearded bloke siĵe cloud rage bully love want condemn

fire hell spiritual fairy tale control dictate event behaviour fear god bizarrely god- fear religious circle state desire suggest fear encourage celebrate delete god fear beneficial cult religion decide god want god demand cult demand great american comedian bill hicks say satirise christian zealot think god mean infinite awareness god access decide far choose expand perception self identity sense possible scale self identity reflect scale awareness connect influence knowing insight instead program perception expand awareness infinity possibility believe liĵle peter postman mary marketing deal conclude chapter crucial turnaround current event cult come realise early 1990 cult network global event ask obvious question start take ancient rome egypt babylon sumer mesopotamia land river iraq river tigris euphrates region immense historical importance cult land call israel 550 mile away air go deep esoteric meaning region war oil priceless artefact mesopotamia steal destroy ağer american british invasion iraq 2003

artefact mesopotamia steal destroy ağer american british invasion iraq 2003 justified lie boy bush tony blair cult master non existent weapon mass destruction mesopotamia location sumer 5,400bc 1,750bc babylon 2,350bc 539bc

sabbatians immensely influential cult modern time network go mist history sumer say historian cradle civilisation disagree start human civilisation ağer cataclysmic event symbolise great flood destroy world exist fantastic upheaval describe detail book early1990 appear account legend ancient culture world support geological biological evidence stone tablet find iraq detail sumer period cataclysm cause non- human god anunnaki describe term extraterrestrial visitation knowledge supply anunnaki say source world old writing system development astronomy mathematic architecture way ahead time cover subject length big secret children matrix basic anunnaki story find zulu account south africa late great zulu high shaman credo mutwa tell sumerian anunnaki know zulus chitauri child serpent hour video interview credo subject entitle reptilian agenda record home near johannesburg 1999 watch

ickonic medium platform cult emerge sumer babylon egypt establish roman empire expand romans northern europe empire savagely impose form cult control society world mass death destruction calling card cult establish centre operation europe european empires cult empire allow expand global force spanish portuguese colonialist head central south america british french target north america africa colonise britain france belgium netherlands portugal spain italy germany like britain france move middle east british empire far big simple reason

britain headquarters cult expand form canada united states australia new zealand sun set british empire scale occupation london remain global centre cult rome vatican emerge israel china accident virus allege come china italy choose means terrify western population compliance covid fascism israel lead world covid fascism mass vaccination think mention united states important means impose cult significant appear currently process have power delete cult europe load gun fire america control europe start cult operative britain europe american revolution illusion appear america govern different force pull string form cult family rothschilds rockefellers subordinate rockefellers extremely close bill gates establish scalpel drug medicine world health organization play major role development circulation vaccine rockefeller foundation bill gates say foundation base case rockefellers gates team cult infiltration human society go way history constantly expand centralise power goal establish global structure dictate look advance great leap covid hoax non human dimension research observe coming going cult operative century thousand year bear work promote agenda secret society satanic network die replace clearly coordinate force span entire period operative see end goal lifetime come go advance plan millennium go search coordinate force usual support extraordinary synchronicity life daily experience 1990 see common theme religious text ancient culture non human force manipulate human society hidden christianity call force satan devil demon islam refer jinn djinn zulus chitauri spell way different part africa gnostic people egypt period 400ad refer phenomenon archons word mean ruler greek central american culture speak predators name theme use archons collective nature behaviour

describe different source clearly talk force gnostics describe archons term luminous fire islam relate jinn smokeless fire refer being form occasionally see common common theme operate unseen realm mean existence visual process human conclude foundation human control cult operate human frequency band behalf hidden force come writing gnostics support conclusion extraordinary way

behalf hidden force come writing gnostics support conclusion extraordinary way sealed earthen jar find 1945 near town nag hammadi 75 80 mile north luxor bank river nile egypt inside treasure trove manuscript text leğ gnostic people 1,600 year early include 13 leather bind papyrus codex manuscript 50 text wrîĵen coptic egyptian estimate hide jar period 400ad source information go gnostics oversee great royal library alexandria fantastic depository ancient text detail advanced knowledge account human history library dismantle destroy stage long period death blow deliver cult establish roman church period 415ad church rome church babylon relocate say early gnostic race way perceive reality establish information circulate terrorist church rome target destruction happen great library gnostic cathars burn death psychopath ağer long period oppression siege castle monségur southern france 1244 church terrifie gnostic information demolish official christian narrative bible support gnostic view read way study text know nag hammadi library clear great swathe christian biblical belief origin gnostics source go sumer gnostic theme twist manipulate perceive reality bible believer biblical text open century change gnostic document find nag hammadi seal away untouched 1,600 year write use pneuma nous gnosticism gnostic come gnosis mean knowledge secret knowledge sense spiritual awareness knowledge reality life desperation cult church rome destroy gnostics understand knowledge circulate thing cult want population know sixteen year later cult work hard undermine silence reason dynamic knowledge ignorance constant time appear essential theme remain tell use nous gnostic word head brain intelligence say spiritual awakening salvation secure expand awareness call nous pneuma infinite self obviously read text parallel say 1990 fascinating universal truth span human history case talk

language 16 century apart free perception program five sense

explore

expand realm consciousness go connect information maĵer perceive era manufacture timeline single tiny range manipulate frequency human work smart technology knock rock cave timeline appear operate human frequency band expand awareness knowledge hold era stone age computer age access knowledge open frequency five sense prison cell zuckerberg brin page wojcicki bezos covid hoax clearly long wait range frequency connection give open heart crucial shall instead access knowledge directly expand awareness give cult operative secret society network cult pass thousand year outside public arena expanded realm consciousness great artist composer writer find inspiration truth await open connect need fast fiĝh nag hammadi text describe existence manipulation archons lead chief archon yaldabaoth demiurge christian devil satan lucifer demon archon biblical symbolism fallen one refer fallen angel aĝer angel expel heaven accord abrahamic religion judaism christianity islam angel claim tempt human sin ongoing accurate symbolism rest book theme original sin relate fall adam eve tempt serpent fall state innocence obedience connection god state disobedience disconnection fall say bring sin world corrupt include human nature yaldabaoth lord archon describe gnostics counterfeit spirit blind blind god foolish jewish yaldabaoth talmudic writing samael translate poison god blindness god parallel yaldabaoth islamic belief muslim jinn devil know shaytan shaytan satan theme find world religion culture lord god old testament lord archon gnostic manuscript bloodthirsty bastard satan know christians demon demons gnostics call yaldabaoth archon archons know deceiver talk bloke sure common theme different name storyline symbolism tell common tale human plight archon refer nag hammadi document mind parasite inverter guard gatekeeper detainer judge pitiless one deceiver covid hoax glaring example thing biblical god different old new testaments describe phenomenon vindictive angry hate-filled god old testament know yahweh yaldabaoth depict cult dictate

popular culture dark lord lord time lord darth vader dormammu evil ruler dark dimension try earth

lord darth vader dormammu evil ruler dark dimension try earth dimension marvel comic movie dr strange yaldabaoth old testament god biblical satan gnostic refer yaldabaoth great architect universe'and cult control freemason network call god great architect universe grand architect great architect yaldabaoth symbolise cult all- see eye pyramid great seal united states dollar bill archon encode arch itect arch angel arch bishop religion theme force good force evil sort spiritual war reason theme true cult non human master happy circulate present force good fighte evil force evil absence love foundation cult modus operandi inversion promote force good challenge pursuit peace love fairness truth justice condemn satanic force evil game plan history church rome inquisition non believer conspiracy theorist anti vaxxer today technique yaldabaoth revolt true yaldabaoth archons say revolt god yaldabaoth claim god old testament god yaldabaoth demand worship lord god isaiah 45:5 quote book man say unofficial son late baron philippe de rothschild mouton rothschild wine produce estate france die 1988 tell rothschild revolt god man say give phillip eugene de rothschild share long correspondence year ago live identity say conceive occult incest cult normal admire phillip tell experience aĵende satanic ritual rich famous people name wide background cult satanism book start biggest secret cult ritual interaction archontic god phillip describe baron philippe de rothschild master satanist hater god term revolt god associate yaldabaoth satan lucifer devil describe sabbatian rothschild dynasty play key role family revolt god say role infiltrate classic sabbatian style christian church eventually escape mind prison live life cult target religion plan worship archons global world religion infiltration

satanism modern culture especially young music video stage show mean nag hammadi text describe yaldabaoth archons prime form energy consciousness form choose way consciousness take form human yaldabaoth call formless represent deeply invert distorted

chaotic state consciousness seek aĵached human turn likeness aĵempt assimilation happen manipulate human low frequency mental emotional state match archon certainly appear human form origin psychopathic personality energetic distortion gnostics call yaldabaoth psychopathy psychopathic archons human form human psychopath expression yaldabaoth consciousness cult psychopath archons human form principle portray 2009 avatar movie american military travel fictional earth like moon call pandora alpha centauri star system infiltrate society blue people na'vi hide body look like na'vi archon pose human particular hybrid information

field human archon ancient demigod process information way manifest behaviour match psychopathic evil lack empathy compassion stop influence empathy compassion love fully human information field capable express cult bloodline interbreed royalty dark suit reason obsession incest interbreed blow human dilute archontic energy field guarantee psychopathy representative human realm gnostic writing main non human form archons serpentine call decade reptilian amid unbounded ridicule archontically program gnostics describe unborn baby foetus grey skin dark unmoving eye excellent representation et greys ufo folklore large number people claim see abduct zulu shaman credo mutwa agree believe extraterrestrial interdimensional visitation today thousand year past wonder advanced knowledge technological capability perceive worship god technological miracle appear perform imagine arrive culture disconnect modern world smartphone computer see god capable miracle renegade mind want know source way source manifest human non human way renegade mind seek original source material covid virus claim true original source archons form consciousness distorted state consciousness know gnostics yaldabaoth revolt god energetic disconnection go lot sense religious text ancient legend relate satan lucifer god gnostic description sync perfectly theme research year describe consciousness distortion seek impose human consciousness refer core infinite awareness previous book infinite awareness awareness mean level awareness know awareness aware awareness come frequency love

true sense balance love level balance force single call oneness isness disconnect state love god constituent part oneness start unravel express individualised intellect mind selfishness hatred envy desire power like problem great scheme god experience possibility different expression include human expression experience experience experience withdraw state oneness disconnect influence thing unpleasant stupid archontic consciousness extreme end disconnect influence oneness inversion unity love inversion inversion life evil appropriately live wriĵen backwards archontic consciousness obsess death inversion life manifestation satanism obsess death use inverted symbol ritual inverted pentagram cross sabbatians archontic consciousness incarnate invert judaism religion culture infiltrate

seek disunity chaos fear unity harmony fear love like garlic vampire result cult archons incarnate act evil psychopathy lack empathy compassion disconnected source love bill gates rest archontic psychopath human society covid era death suffering destruction involve emotional consequence impact know zuckerberg brin page wojcicki company callously censor information warn danger vaccine thousand die have severe life- change reaction know tedros fauci whiĵy vallance like world case death figure aware fraudulent justify lockdown death destroy life come know christian drosten produce promote testing protocol know test infectious disease lead global human catastrophe know archontic mind shit fig 17 personally think gates major cult insider form ai cyborg archons want human figure 17 artist neil hague version covid hierarchy state inversion consequence level disconnection source mean withdraw source energetic sustenance creativity mean find supply energetic power morpheus character first matrix movie hold baĵery speak profound truth say matrix computer generate dream world build control order change human statement true respect live technologically generate virtual reality simulation shortly manipulate energy source archontic consciousness disney pixar animate movie monsters inc. 2001 symbolise dynamic monster world energy source enter human world terrify child bed catch child scream terror low vibrational frequency energy power monster world lead character remember single giant eye symbolism cult see

eye obvious thought emotion broadcast frequency unique thought emotion feeling love joy empathy compassion high quick frequency fear depression anxiety suffering hate low slow dense frequency kind think archontic consciousness connect absorb low dense frequency state way connect energy love joy archon feed off energy compatible frequency cult agent want delete human world love joy manipulate transmission low vibrational frequency low vibrational human mental emotional state energy source war energetic banquet archons world war think low frequency mental emotional energy generate consequence humanity covid hoax orchestrate archons incarnate like gates

ancient practice human sacrifice god continue secret today cult base principle god archontic consciousness different form sacrifice induce state intense terror generate energy archontic frequency absorb incarnate archons ritual drink blood contain adrenaline crave flood

bloodstream people terrorise sacrifice ancient modern child theme sacrifice young virgin god code child particular pre puberty energy archon want energy young general target california department education want student chant name aztec god archontic god worship human sacrifice ritual curriculum design encourage challenge racist bigoted discriminatory imperialist colonial belief join social movement struggle social justice build new possibility post racist post systemic racism society usual woke crap invert racism call anti- racism case solidarity indigenous tribe excuse chant name god people sacrifice secret example woke inability black white condemn colonisation tribal culture europeans right culture sacrifice people include child god mass murder untold number aztecs fine chant aztec god tezcatlipoca man sacrifice 5th month aztec calendar heart cut eat oh okay come child ağer sacrificial god young chant allegiance include quetzalcoatl huitzilopochtli xipe totec curriculum say chant affirmation energizer bring class build unity ethnic study principle value reinvigorate class follow lesson emotionally taxing student engagement appear low cover story chant mantra repetition particular frequency generate vocal cord chant name archontic god tune frequency thing want

allow energetic synchronisation aĵachment perceptual influence initiate chant name gods ritual reason vampires woke paedophilia way archons absorb energy child paedophile possess archontic consciousness conduit sexual abuse discarnate archons vampire energy young desire stupendous number child disappear year see know medium imagine low vibrational energy generate child covid hoax depressed psychologically destroy point kill shocking number child take state love parent hand tell long experience research 1996 end paedophile asset cult corrupt cult own social service reframing era hire psychopath emotionless automaton job child steal order spurious reason corrupt secret corrupt family court wriĵen detail book start big secret 1997 ubiquitous connection political corporate government intelligence military elite cult operative satanism paedophilia deep network interlock leadership woke mentality develop cult reason promote aspect agenda hijack

leadership woke mentality develop cult reason promote aspect agenda hijack traditional political leğ turn fascist divide rule target agenda pushbacker reason relate describe happy joyful wokers especially extreme end mental psychological mess consume emotional stress constantly emotionally cock explosion indignation refer female female walk talk baĵeries morpheus emiĵe frequency enslave low vibrational bubble perceptual limitation feed archons add hatred claim love fascism claim anti fascism racism claim anti racism exclusion claim inclusion abuse-fille internet trolling purpose build archontic energy system wind turbine sight found archontic inversion generation manipulate serve archons snap archon induce trance surprise cult billionaire corporation money way energy joy laughter include laugh confirmation emotional security mark twain say human race effective weapon laughter use time woke destroy comedy humour joy sense irony self deprecation energy dense intense mmmmm lunch say archontic frequency rudolf steiner 1861 1925 austrian philosopher famous esoteric thinker establish waldorf education steiner school treat child like unique expression consciousness mind program perception determine authority write energy vampiring decade send 2016 quote steiner spot being spiritual realm anxiety fear emanate

human being offer welcome food human anxiety fear creature starve fear anxiety radiate people break panic creature find welcome nutrition powerful being hostile humanity feed negative feeling anxiety fear superstition despair doubt reality hostile force super sensible world launch cruel attack human being feed exactly feeling belong contemporary culture materialism estrange people spiritual world especially suit evoke hopelessness fear unknown people call mention hostile force pause moment perspective reflect happen world start 2020 penny drop billion dollar bill theme don juan matus yaqui indian shaman mexico information source peruvian bear writer carlos castaneda write series book 1960 1990 don juan describe force manipulate human society archons predator come depth cosmos take rule life human being prisoner predator lord master render docile helpless want protest suppress

prisoner predator lord master render docile helpless want protest suppress protest want act independently demand hold prisoner take food squeeze mercilessly sustenance rear chicken coop predator rear human coop humanero food available different culture different era recur theme ennoia dilemma nag hammadi gnostic manuscript archon consciousness ennoia directly translate intentionality use term creative imagination awareness source creativity possibility disconnected source subsequently deny creative imagination give archon consciousness entirely disconnected severely lack creativity rely far mechanical process thought exploit creative potential ennoia case human society archon consciousness entirely dominate global banking system study system work appreciate mean bank manifest money issue line credit money exist theory confidence trick think credit figure screen money worth accept payment system collapse lack confidence value money archontic banker ennoia lend money exist human creativity inspire idea create business product archon banking feed off human creativity control money creation debt human creativity archon exploit benefit control have archon internet platform post archontic mind like zuckerberg officially head company human creative staff provide creative inspiration limitless money buy company establish creative human witness acquisition record facebook google like survey archon control music

industry non creative dark suit executive make fortune human creativity artist case endless research history

people like gates zuckerberg empire build exploit creativity archon mind create skilled gnostic text countermimicry imitate innovate sabbatians trawl creativity backdoor install computer system cybersecurity system archon control china globally infamous steal intellectual property remember hong kong china notorious make counterfeit copy creativity countermimicry pervasive see surveillance system able infiltrate computer appreciate potential archons vampire creativity human author john lamb lash write book nag hammadi text image originate lack divine factor ennoia intentionality archons imitate vengeance expertise simulation hal virtual reality demiurge yaldabaoth fashion heaven world copy fractal pattern original construction celestial kitsch like fake italianate villa mafia don complete militant angel guard portal bring speak turn millennium reality simulation virtual reality think real kid human reality virtually ponder year reality real kind construct remember immensely affected visit small child late 1950s newly open planetarium marylebone road london close adjacent madame tussauds wax museum middle day light go night sky project planetarium domed ceiling appear real experience leğ know turn millennium certain night sky entire reality projection virtual reality akin illusory world portray matrix movie look sky day period appear like domed roof planetarium release first matrix movie 1999 provide synchronistic perfect visual representation mind go long time come gnostic nag hammadi text year later correlation astounding read gnostic account 1,600 year early clear describe simulation phenomenon tell yaldabaoth demiurge archons create bad copy original reality rule capture illusion body prison trap consciousness bad copy fake reality read gnostics describe bad copy update current time refer today virtual reality simulation author john lamb lash say demiurge fashion heaven world copy fractal paĵern original expertise hal virtual reality simulation fractal paĵern energetic information construct reality sort blueprint paĵern copy computer term copy natural reality non natural frequency digital form principle make copy website original website exist

change copy version like different

copy website original website exist change copy version like different original website archon reality synthetic copy prime reality exist frequency wall simulation trap illusion synthetic matrix human consciousness expression prime reality archons cult seek human body synthetic synthetic ai mind complete job turn entire reality synthetic include perceive natural world quote kurzweil nanobot infuse maĵer information rock tree intelligent creature yes synthetic creature covid genetically manipulate vaccine design human body synthetic perspective obvious archons cult desperate infuse synthetic material human covid scam let electromagnetic light yaldabaoth force create simulation matrix make sense gnostic reference great architect use cult freemasonry deity designer matrix movie call architect trilogy jam pack symbolism relate subject contend year angry old testament god yaldabaoth god symbolically quote opening genesis create world creation prime reality creation simulation genesis god say let light light light say decade speed light 186,000 mile second fast speed possible claim mainstream science fact frequency wall outer limit matrix fast slow possibility possible human body encode operate speed light simulation tiny frequency band visible light near death experiencer perceive reality outside body temporary death describe different form light support nag hammadi text prime reality simulation upper aeons gnostics describe realm incredible beauty bliss love harmony realm watery light powerful shadow false reality archon control gnostics lower aeons depict realm different kind light describe term chaos hell abyss outer darkness trap soul torment manipulate demon relate covid hoax watery light theme find near death account simulation light electromagnetic radiation light speed light lower aeons simulation light luminous fire associate gnostics archons bible refer yaldabaoth old serpent call devil satan deceiveth world revelation 12:9

think make simulate copy prime reality countermimicry change dramatically time manipulate humanity believe real probably meet criterion deceive world come cult god lucifer light

bringer lucifer symbolic yaldabaoth bringer radiation light form bad copy simulation speed light symbolise lighted torch hold statue liberty illuminati sabbatian frankism declare lucifer true god lucifer real god freemasonry honour great grand architect universe simulation emphasise way archontic technologically- generate luminous fire radiation deluge environment kid 1950 change nature field constantly interact interaction technological radiation change smart grid design operate immense level communication power 5 g expand world 6 g 7 g process development radiation simulation archontic manipulation system archon cult wish unleash radiation great extreme form kurzweil cloud plan synthetic human relate need cope level radiation see far biological human survive scale radiation script smart grid technological sub reality technological simulation disconnect five sense perception expand consciousness technological prison mind infuse spirit darkness recur theme religion native culture manipulation human genetic non human force famously record biblical son god god plural original interbreed daughter man nag hammadi apocryphon john tell story way yaldabaoth send angel archon demon daughter man raise offspring enjoyment succeed success gather plan angel change likeness likeness mate fill spirit darkness mix evil take woman beget child darkness accord likeness possession discarnate entity take human body age old theme continue today real see satanic secret society ritual create energetic environment entity aĵach initiate hear story people change personality ağer initiate low level freemasons inside freemasonic temple public open day walk stop ryde town live birmingham england group boston massachuseĵs feel energetically dark dense low vibrational sinister demonic aĵachment happen initiate idea go ritual masons bit good business far extreme ritual satanism human possession powerful design possession possible hierarchy cult dictate power perceive status possess archon way archon hierarchy cult hierarchy entity

perceive status possess archon way archon hierarchy cult hierarchy entity aĵache influence perception behaviour aĵache extreme energy information infuse body information field hologram start reflect nature possess entity exorcist movie type possession facial feature

change know shapeshiğing islam jinn say invisible trickster change shape whisper confuse human form trait archons version phenomenon extreme possession certainty infuse spirit darkness partner sex nag hammadi text appear describe infusion change genetic energetic information human genetic information spirit darkness information mix change happen islam concept jinn baby possession mother jinn take human form way human genetic change remember archons aware advanced technique human society today far know archons time fallen one version describe religion culture archons human world cult obsess genetic today know dictate information process perceive reality human life need produce human form decode simulation symbolically know adam eve leğ garden prime reality fall matrix reality simulation physical construct physical source information think wi fi simulation energetic field encode information body brain system design decode information encode wave frequency form transmiĵe brain electrical signal decode brain construct sense reality illusory physical world exist brain mind virtual reality game mimic process sensory decoding system information feed sense decode virtual reality appear real figs 18 19

scientist believe

agree perceive physical reality exist look observe act perception focus trigger decoding system turn waveform information holographic reality observe reality revert holographic state waveform state relate principle fall tree make noise hear decode concept make sense simulation perspective computer decode information wi fi field time decode bring reality screen wi fi decode focus moment figure 18 virtual reality technology hack body sense decoding system figure 19 result experience real interestingly professor donald hoffman department cognitive sciences university california irvine say experience reality like computer interface show level interact hide exist evolution shape user interface hide truth truth language space time object wrong language describe reality correct say level space time universal reality phenomenon decode simulation reality process enslave sense reality near-

death experiencer report space time exist perceive free body body decoding system appreciate archon cult desperate entrap human aĵention five sense matrix matrix open mind expand state awareness take information confine simulation aware knowledge insight deny awakening awakening matrix final chapter relate current event alien simulation explain call fermi paradox name aǧer italian physicist enrico fermi 1901 1954 create first nuclear reactor consider question lack extraterrestrial activity star planet apparently vast universe night sky think simulate projection control simulation aim hold humanity fast essential ignorance want form life include advanced life come go share information humanity want believe isolate apparently theme human isolation apartness common perception lifeless universe fascist isolation law covid era paradoxically existence simulation mean force construct view experience people report world century reptilians grey entity archon phenomenon nag hammadi text describe benevolent alien interaction non human group come simulation overcome archon aĵempt highlight reptilians greys obsess genetic technology relate cultural account abduct technology way overcome limitation creative potential technology drive control human society today archetypical archon- reptilian grey modus operandi technocracy archontocracy universe big appear simulation

reptilian grey modus operandi technocracy archontocracy universe big appear simulation space distance information decode holographic reality space absence holographic object space field energetic information connect single apply artificially generate information field simulation universe big small physical reality decode information perceive size decide way simulation encode appear entire night sky perceive exist brain million light year star ceiling planetarium look vast distance away point mention alien highlight 1990 plan stage fake alien invasion justify centralisation global power world military nazi scientist werner von braun take america operation paperclip aǧer world war help found nasa tell american assistant dr carol rosin cult agenda know die 1977 rosin say tell sequence lead total human control world government include threat terrorism rogue nation meteor asteroid finally alien invasion thing

von braun say bogus refer problem reaction solution mind alien come new mantra alien come infiltrate human society look human french canadian investigative journalist serge monast say 1994 uncover nasa military operation call project blue beam fit werner von braun predict monast die heart aĵack 1996 day ağer arrest spend night prison 51 say blue beam plan stage alien invasion include religious figure beam holographically sky global manipulation usher new age worship cult god yaldabaoth world religion fake holographic asteroid say plan sync von braun stage illusory threat asteroid holographic insert preĵy straightforward give advanced technology outside public arena fact physical reality holographic information field project decode illusion physical asteroid sell global pandemic virus exist human believe government medium tell particularly relevant write pentagon plan release june 2021 information ufo sighting follow ufo story early 1990 common theme government military denial cover recently pentagon suddenly talkative apparently open air force pilot radar image release unexplained crağ move change direction speed believe possible human technology march 2021 director national intelligence john ratcliffe say pentagon report month

2021 director national intelligence john ratcliffe say pentagon report month later june reveal great deal information ufo sighting unknown public say report massive implication order include bizarrely $ 2.3 trillion coronavirus relief government funding bill pass trump administration end 2020 add note caution point 1990 military intelligence network long crağ flye saucer anti gravity crağ observer extraterrestrial origin keep knowledge public allow crağ flown human perceive alien visitation say alien exist streetwise president ronald reagan tell un general assembly 1987 occasionally think quickly difference worldwide vanish face alien threat outside world idea unite common enemy common purpose saviour force cult age old technique mass manipulation go global science move way find person discuss simulation hypothesis publicly conclude real nick bostrom swedish bear philosopher university oxford explore year possibility human reality computer simulation version today simulation holographic reality hypothesis increasingly enter scientific mainstream open minded

mainstream gather example american nuclear physicist silas beane lead team physicist university bonn germany pursue question

live simulation conclude probably likely base laĵice cube find cosmic ray align specific paĵern team highlight greisen zatsepin kuzmin gzk limit refer cosmic ray particle interaction cosmic background radiation create apparent boundary cosmic ray particle paper entitle constraint universe numerical simulation paĵern constraint exactly find computer simulation point simulation create law physics limit possibility make point decade perceive law physics relate reality later simulation designer write code create computer virtual reality game equivalent law physics game player interact limitation lay coding way write code simulation decide law physic apply override expand state consciousness enslave five sense awareness simulation code rule override code people miracle bypass encode limit simulation population catch simulation perception idea plight bonn paper say like prisoner pitch black cell able wall prison true people remain mesmerised five sense open expand awareness wall clear main speed light american theoretical physicist james gates explore simulation question find considerable evidence support idea gates professor physics university maryland director center string particle theory barack obama council advisors science technology team find computer code digital datum embed fabric reality relate off electrical charge 1 0 binary system computer energetic fabric mathematical sequence know error- correct code block code reboot datum original state default seĵing knock sync gates ask find set equation embed reality indistinguishable drive search engine browser say correct rich terrile director centre evolutionary computation automated design nasa jet propulsion laboratory say publicly believe universe digital hologram create form intelligence agree way waveform information deliver electrically sense brain construct digital holographic reality world digital level reality read esoteric art numerology digital hologram cuĵing edge holographic today digital technology design access manipulate digital level perceive reality synthetic mrna covid vaccine digital component manipulate body digital reality number know reality break number code

computer game max tegmark physicist massachuseĵs institute technology mit author

mathematical universe lay reality entirely describe number math way video game encode physic computer game world computer virtual reality essentially tegmark imagine perception character advanced computer game graphic good know game think bump real object electromagnetic resistance reality fall love feel emotion like excitement begin study apparently physical world video game realise pixel find energetic reality case level world digital computer game character think physical stuff

tegmark say actually break number exactly situation world look mathematical elementary particle like quark electron property electron smell colour texture physicist come geeky name electron property like electric charge spin lepton number electron care property number illusory reality gnostic describe simulation c g t code dna binary value c = 0 g t = 1 simulation digital body digital interact recur mathematical sequence encode reality body include fibonacci sequence previous number add 1 1 2 3 5 8 13 21 34 55 etc sequence encode human face body proportion animal dna seed head pine cone tree shell spiral galaxy hurricane number petal flower list go fractal paĵern never- end paĵern infinitely complex self similar scale principle hologram famous recur geometrical mathematical sequence phi pi golden mean golden ratio golden section computer code simulation laugh head shake day finishe book go production stage send article scientific american publish april 2021 headline confirmed live simulation decade ağer first say reality simulation speed light outer limit article suggest live simulation speed light outer limit leğ school 15 pass major exam life writer eye qualification explain final chapter knowing far beĵ thinking come different source article rightly connect speed light processing speed matrix say book time simulation appear space abstract property wriĵen code real live simulation create david icke say manipulate alien cracker reality humanity think real illusion politician government scientist doctor academic law enforcement medium

school university curriculum found world exist simulate prison cell stretch accept covid exist entire physical reality exist reveal knowledge keep rap cult network compartmentalise secrecy control humanity sense reality induce population believe reality real tragic experiential consequence thing hysterically funny new renegade minds ancient greek philosopher plato 428 347bc

major influence gnostic belief describe human plight thousand year ago allegory cave tell symbolic story prisoner live cave outside chain wall cave fire figure walk past fire cast shadow prisoner wall move shadow sense reality prisoner begin study shadow consider expert today academic scientist study illusion today academic scientist prisoner escape cave see reality return report revelation believe call mad threaten kill try set free plato tale brilliant analogy human plight illusory reality describe dynamic covid hoax skim surface subject aim book crisply connect essential dot happen today true context subject area connection chapter cover great evidential detail need know tell answer bewildered people forest tree humanity forest twig five sense twig renegade minds forest forest answer lie connection reveal break free perceptual programming forest see way turn break free humanity get mess situation hopeless promise perceptual heartbeat paradise life simply vacation infinite enegade mind weave web life event common theme apparently random look pursuit aid incredible synchronicity come mind open mesmerise think infinite awareness infinite possibility infinite possibility access infinitely possible state apparently obvious devastatingly- powerful fact set free point aĵention infinity consciousness question infinity choose access knowledge insight awareness wisdom want connect explore focus five sense influence fraction infinite awareness mean range tiny give new meaning infinitesimal limitation self identity sense possible limit accordingly range consciousness think life think dream dreamer dreamer dream buddhist philosophy put way thing view appear human live realm touch taste hear smell limit sense possible sense self follow religion speak god heaven life dominate five sense perception action five sense arbiter happen smear infinity seal away influence rigid unyielding reality bubble five sense human

phantom self archon cult methodology isolate consciousness five sense reality simulation program consciousness sense self world deluge life long information design instil desire perception allow global control effort increase

information design instil desire perception allow global control effort increase dramatically identity politic identity bubble squeeze minutia five sense detail disconnect people profoundly infinite sense focus self identity like firewall limit access infinite realm perceive radio television station literally moment imagine vast array station give different information angle reality listen human plight population overwhelmingly confine cultfm relate frequency range cultfm limit perception insight band limit possibility band mean connect imperceptibly minuscule range possibility creative potential infinite field world apart synchronicity rare synchronicity define dictionary happening chance related similar event time use chance betray complete misunderstanding reality synchronicity chance people open mind awaken use term notice coincidence life bit luck apparently miraculous happening right place right time right people day pepper fancy meet chance entire life live like colossal awakening 1990 91 transform sense reality synchronicity chance access expand realm possibility allow expand potential manifestation people broadcast vibe openness mind tend draw chance frequency magnetism people 30 year incredible synchronicity lead cult maze information form crucial personal experience coincidence allow puzzle piece enormous array subject situation breach bubble five- sense reality know exactly mean escape perceptual prison cell open choice appear super human compare limitation human natural state human currently experience consciousness unnatural state induce separation infinity come transformation unity describe detail force hold humanity servitude deny access infinite self wetiko factor talk write decade way

five sense mind systematically barricade expand awareness analogy computer five sense mind keyboard expand awareness interaction computer operator symbolic interaction five sense mind expand awareness computer directly experience internet operator experience internet

computer suppose work archon seek control point operator connect computer stop interaction fig 20 operator bang keyboard click mouse computer respond happen computer take possess appropriately name computer virus operator lose influence computer go way make decision control virus describe dynamic force know gnostics yaldabaoth archons disconnect five sense mind expand awareness imprison humanity perceptual figure 20 mind virus write decade seek isolate sense mind computer true image neil hague year ago come native american concept wetiko describe precisely phenomenon wetiko spelling cree version include wintiko windigo tribal group spell low case wetiko proper noun archons prefer capital first see article wetiko writer researcher paul levy sync write computer operator disconnection later archons read book fascinating dispel wetiko break spell evil parallel conclude long native american concept wetiko clear obvious funny wetiko gnostic archons sure jinn predators force evil inversion chaos wetiko native american force divide computer operator fig 21

indigenous author jack d. forbes founder native american movement 1960 write book wetiko entitle columbus cannibals wetiko disease exploitation imperialism terrorism read forbes say wetiko refer evil person spirit terrorize creature mean terrible act include cannibalism zulu shaman credo mutwa tell african account tell cannibalism bring world chitauri god manifestation wetiko distinction evil person spirit relate archons wetiko possess human act pure consciousness wetiko say sickness soul spirit state take give cult operative perfectly describe black hawk native american war leader defend land confiscation say european invader poison heart wetiko heart spread native society mention heart significant shall shortly forbes write tragically history world past 2,000 year great story epidemiology wetiko disease yes long forbes correct say wetikos destroy egypt babylon athens rome tenochtitlan capital aztec empire destroy entire earth evil say number export wetiko culture globalisation covid constant war mass murder suffering kind child abuse satanism torture human sacrifice expression wetiko wetiko possess world wetiko manifest way figure 21 mind virus know native americans wetiko image neil hague cult

wetiko wetiko yaldabaoth frequency distortion seek aĵach human consciousness absorb connection wetiko drive perception target believe come mind horror history today mass killer satanist paedophile like jeffrey epstein psychopath embodiment wetiko express state grotesqueness cult wetiko incarnate yaldabaoth incarnate seek facilitate wetiko assimilation humanity totality distortion manipulate population low frequency state match paul levy write holographically enforce psyche human wetiko virus pervade underlie entire field consciousness potentially manifest moment mindful covid hoax achieve people fall wetiko frequency lair player covid human catastrophe include gates schwab tedros fauci whiĵy vallance johnson hancock ferguson drosten rest include psychopath psychologist expression wetiko compassion empathy emotional consequence people support psychopath authority pushbackers despite damaging impact psychopath life family life look wetiko possession prevent see lie obvious scam go wetiko will let perceptual divide chasm wetikoed non wetikoed paul levy describe wetiko way long describe archontic force distorted consciousness operate dimension reality subtle body wetiko locate dimension space time literally exist dimension able affect ordinary life mysteriously interpenetrate three- dimensional world

wetiko incarnate representative cult weave field level reality electromagnetic information field simulation matrix simulation wetiko yaldabaoth caleb scharf director astrobiology columbia university speculate alien life advanced transcribe quantum realm physics say intelligence indistinguishable fabric universe solve great mystery hyper advanced life external embed perceive physics root behaviour particle field phenomenon complexity emergence word life equation equation emphasis scharf say possible recognise advanced life form integral unsuspicious consider natural world agree wetiko yaldabaoth simulation literally body beast mean control power overcome wetiko influence cult know doubt sleep know suggest work field fierce electromagnetic light matrix speed light watery light field wall matrix connect great infinity sense mind decode system body aĵach field matrix light experience reality sense mind

see matrix field information expanded consciousness infinity field open mind importantly heart infinity field mission control give expand perspective road map understand nature five sense world isolate five sense mind mission control try understand world constantly feed information ensure understand people state feel lost bewildered direction radar clearly influenced fields big infinity liĵle five sense mind simply view behaviour regard covid hoax division known human history mass people individual intuit wall simulation plato prisoner break cave see reality people target wetiko archon possess authority burn stake demonise mad bad dangerous cult today global network anti hate anti fascist woke group expression wetiko aĵacke expose conspiracy covid lie vaccine agenda woke wetiko explain black white mentality wetiko possess cult paul levy say paradigm thrall value logic thing true false wetikoized mind wetiko consciousness permanent rage woke woke inversion contradiction anti fascist act like fascist fascist anti- fascist wetiko work political party act claim different reason secret society satanic ritual aĵache initiate wetiko cold ruthless psychopathic mentality secure position power world wetiko reframe training programme cumulative effect aĵache wetiko graduate describe automaton robot cold psychopathic

cumulative effect aĵache wetiko graduate describe automaton robot cold psychopathic uncaring demeanour trait wetiko possession look time describe book regard personnel covid include police medical profession climb greasy pole profession wetiko society require trait wetiko particularly true politics fair competition pre eminence idea found back stab arsis lick culminate global covid coordination wetiko possess pull off different country trace empathy compassion impact human sight sense holographic form field connect holographic form perceive physical object space fact space energy consciousness operate multiple frequency wetiko connect cult psychopath submit psychopath serve psychopath medium operation world wetiko gates wetiko mask wear submissive wetiko fake journalist fact checker wetiko field coordinate thing psychopath gofer medium operative anti hate hate group fact checker submissive people work unit human coordination aĵached field organise fig 22 paul levy

describe wetiko possess people draw refuse let information breach rigid perception write long covid think recognise follower covid religion oh little bit people channel vibratory frequency wetiko align psychic resonance reinforce unspoken share agreement uphold deranged view reality unconscious content take possession certain individual irresistibly draw mutual attraction knit group tie share madness easily swell avalanche insanity psychic epidemic close system insular open new information inform influence outside world contradict fixed limited limiting perspective woke mind covid mind compatible resonance draw awakening clearly figure 22

wetiko field cult pyramid personnel manifest image neil hague wetiko care human human possess human end effect depend scale possession extreme psychopathy unquestioning obedience wetiko bad nightmare human consciousness expand simulation focusse stop happen control information perception frequency education system medium science medicine academia gear maintain humanity five sense servitude constant stimulation low vibrational mental emotional state covid wetiko seek dominate subconscious space five sense perception expanded consciousness computer meet operator subconscious hiding place wetiko speak trigger urge desire manipulate low vibrational psychopathic state remember islam describe jinn invisible trickster whisper confuse wetiko origin trickster god theme find culture world jinn like archons

wetiko terrifie human awaken reconnecte true self energy source go feedback loop break wetiko human perception provide energetic momentum existence depend force evil human target source survival operate low vibrational state fear hate depression background anxiety people suffer wetiko target key survival need way round paul vampire intrinsic independent substantial existence right exist relation pathogenic vampiric mind parasite call wetiko able exist virtual reality potentially destroy specie fact vampire reflect mirror mean need thing fact wetiko expression inside mean cure wetiko critical issue find cure put effect evil beget evil evil

constantly expand find new source energetic sustenance evil distortion die assimilation balance harmony love garlic wetiko vampire evil absence love exist presence love think way emphasise time decade archons wetiko cult powerful care look call liĵle boy short trouser effect say true wetiko insatiable desire power sign omnipotence insecurity paul levy write primal fear ultimately drive drive cultivate wetiko body politic intrinsic insistent need centralise power control create imagine safety yeeeeeees exactly wetiko want human ongoing state fear wetiko fear petrifie love evil absence love love absence fear love conquer especially wetiko fear wetiko bring fear world fear fall fall low frequency ignorance illusion fear false emotion appear real simulation drive energise fear wetiko yaldabaoth fear simulation fear absence love wetiko absence view current event level perspective covid hoax generate momentous amount ongoing fear anxiety depression despair empower wetiko wonder people like gates instigator wetiko incarnate exhibit trait wetiko extreme cold unemotional people like gates crony dead eye wetiko sabbatians wetiko control include world health organization big pharma vaccine maker national health hierarchy corporate medium silicon valley banking system united nations plan transformation world government control possess wetiko distortion distort human society image knowledge gateway understand world division race culture creed sexuality diversion hide real division possess influence wetiko

culture creed sexuality diversion hide real division possess influence wetiko covid hoax bring clearly view human behaviour race tyrant dictatorship come colour creed unite president bomb innocent african tribe commiĵe genocide rwanda unite wetiko war wetiko genocide wetiko hunger century world plenty wetiko child go bed hungry include west wetiko cult generate woke racial division focus body design obscure reality division behaviour manifestation mind body obsession body identity group judgement means divert aĵention real source behaviour mind perception conflict sow woke target group wetiko provide lunch agent division chaos fear feed cult seek assimilate entirety humanity child young people wetiko frequency manipulate state fear despair witness suicide psychological unravelling spring 2020

wetiko psychopath want impose state unquestioning obedience authority conduit wetiko enforce assimilate humanity need believe resistance futile fear resistance game change non cooperation imposition use violent resistance benefit violent imposition violent resistance wetiko power love power sweep wetiko world wetiko cult know want know bring ai artificial intelligence wetikos want know ai know computer code algorithm ai learn datum input diversion expeditionary force real ai want connect human brain promote silicon valley wetikos like kurzweil ai frequency wetiko frequency archons connection ai human brain connection wetiko frequency create wetiko hive mind complete job assimilation hive mind plan control israel china 100 percent own wetiko sabbatians assimilation process go minute minute smart era fuse covid era tell social media scramble mind young change personality true social media look deeply work create division conflict hostility cruelty targeting people destroy wetiko social media manipulate tune people wetiko frequency emotional exploitation trick employ platform like facebook wetiko man zuckerberg facebook instagram announce new platform child overcome legal bar main site wetiko exploitation manipulation kid amnesty international liken plan fox offere guard henhouse say incompatible human right wetiko zuckerberg repeat care brin page google

incompatible human right wetiko zuckerberg repeat care brin page google wojcicki youtube bezos amazon hell run twiĵer act channel wetiko develop technology reason human control design sell technology kill people big pharma drug vaccine producer know end devastate life thought people consider wetiko human life wetiko frequency change change change perception change behaviour gates go bear think exactly want way go frequency frequency lair say long time big addiction smartphone device frequency come off entrap mind people spend age phone minute ağer pick repeat covid lockdown increase addiction million time obvious reason addiction alcohol overindulgence drug way wetiko entrap consciousness aĵach symptom low- vibrational psychological distress alcoholism drug addiction compound think coincidence access easy potion people realm simulation ban illegal explore smartphone

addiction book scale mind blow level addiction come help tech company phone wetiko qualm destroy mind child see company wetiko perceptual combination psychopathic enforcer weak meek unquestioning compliance rank file global smart grid wetiko grid crucial complete cult endgame simulation radiation deluge technological radiation devastating scale wetiko fraud like elon musk serve cult interest occasionally criticise maintain street cred 5 g form wi fi direct earth space volume scale go increase day elon musk officially spacex starlink project process puĵe ten thousand satellite low orbit cover inch planet 5 g wi fi create kurzweil global cloud human mind plan aĵache soon spacex approval operate 12,000 satellite 1,300 launch time writing application file 30,000 operator wi fi 5 g low orbit satellite market include oneweb uk telesat canada ast science musk tell ai end humanity launch company call neuralink connect human brain computer musk theory tesla company build electric car driverless vehicle smart control grid fraud bullshiĵer elon musk opinion major league 5 g technological radiation general destructive human health genetic psychology increase strength artificial radiation underpin five sense

health genetic psychology increase strength artificial radiation underpin five sense perceptual bubble expression radiation electromagnetism freedom activist john whitehead right databit databit build electronic concentration camp smart grid 5 g means control human mind infuse perceptual information field influence sync frequency change perception behaviour en masse manipulate population level frequency happen today arrogance musk fellow cult operative know bound way gates musk satellite number change night sky view earth astronomy community complain see consequence musk wetiko hubris include radiation visible pollution night sky interference astronomy meteorology ground water pollution intensive use increasingly spaceport accumulate space debris continual deorbiting burning age satellite pollute atmosphere toxic dust smoke ever- increase likelihood collision collective public open leĵer complaint musk say write spacex process surround earth network thousand satellite purpose irradiate square inch earth spacex like treat radiation mitochondria cell depend

electron move undisturbed food digest oxygen breathe nervous system heart subject radio frequency interference like piece electronic equipment cancer diabetes heart disease afflict majority earth population metabolic disease result interference cellular machinery insect bird animal eat starve death result people like musk gates believe limitless wetiko arrogance like world consequence humanity irrelevant absolutely time stop take shit self- style master earth consider go cult anti human hear question oğen affect ah forget body vehicle wetiko consciousness break foundation look state severely distorted consciousness target state consciousness assimilation rest detail simulation fly trap unique sensation five sense create cycle addiction call reincarnation renegade minds happen reality small version picture line holographic principle addiction radiation smart technology small version addiction simulation connect body brain ai take addiction giant step total ongoing control assimilate human incarnate consciousness wetiko watch covid hoax profoundly aĵached wetiko perceptual calling card aggressive response point view god psychopathic lack compassion empathy servile submission narrative authority wetiko psychopath subservience psychopath cult wetiko

anti human human embark mission destroy human target mean human survive human covid end means end cult wetiko consciousness seek change earth system include atmosphere suit human gather bombardment 5 g ground space dramatically change field five sense interact come sit hand hope away mean away mean extreme need face carbon dioxide gas life human kaput go history natural world human cult create cock bull story carbon dioxide climate change justify reduction point gates ignoramus biden climate chief john kerry want suck atmosphere kerry want master gates wetikos gas life demon usual support wokers extinction rebellion similar organisation bewildered puppet child greta thunberg world stage klaus schwab world economic forum extinction rebellion ironic wetiko inversion gas need survive reduce save extinction basic need human oxygen billion walk face nappy deprive body brain essential requirement human existence 5 g 60 gigahertz interact oxygen molecule reduce

oxygen body absorb bloodstream obvious knock consequence respiratory cognitive problem life need explanation psychopath like musk assemble global system satellite deluge human atmosphere insanity man jail basic human need oxygen carbon dioxide dismantle water food geĵe similar treatment united nations agendas 21 2030

great reset plan centrally control water food supply people rain water fall land food affected basic level reduce carbon dioxide genetic modification gmo infiltrate food chain mass scale pesticide herbicide pollute air destroy soil freshwater fish provide livelihood 60 million people feed hundred million worldwide push brink accord conservationist climate change focus gates schwab want dispense current food source replace synthetic version wetiko cult control term production eat totalitarian tiptoe 60 year food processed chemical shite point today natural food dr tom cowan say label eat bill gates big owner farmland united states ulterior motive involve cult klaus schwab write feed world 50 year need produce food produce 10,000 year food security achieve regulation genetically modifie food adapt reflect reality gene editing offer precise efficient safe method improve crop liar people world target aluminium vaccine chemtrail food drink can endless source aluminium link health issue include dementia increase year ağer year insect bee wildlife essential food chain delete pesticide herbicide radiation 5 g dramatically increase 6 g 7 g come pollinate bee population devastate wildlife include bird dolphin whale have natural radar block effect increase radiation summer windscreen splaĵere insect numerous happen go cult introduce genetically modified version tree plant insect include gates fund project unleash hundred million genetically modifie lab alter patent male mosquito mate wild mosquito induce genetic flaw cause die clinically insane gates fund japanese researcher develop mosquito spread vaccine dub flye vaccinator gates fund modification weather paĵern sell myth cause carbon dioxide fund geoengineering sky change atmosphere come light gates back plan release tonne chalk atmosphere deflect sun cool planet funny heating effect sun factor climate projection focusse carbon dioxide reason want reduce carbon dioxide mention sun time want reduce impact sun essential human life

health mention sun cholesterol vitamin d connection demonise sun warning skin

mention sun cholesterol vitamin d connection demonise sun warning skin cancer cause chemical sun cream tell splash come end process statin drug reduce cholesterol turn sunlight vitamin d. lack vitamin d lead long list health effect vitamin d level fall people confine home covid gates fund form geoengineering importantly chemtrail drop heavy metal aluminium self replicate nanotechnology earth kill natural world need know tell detailed background human system target deletion force human wetiko cult embark process transform human body biological synthetic biological explain biological replace artificial synthetic archontic countermimicry right human society plan eventually dispense human body altogether absorb human consciousness cyberspace simulation wetiko yaldabaoth preparation happen people care look alternative medium rightly warn globalism globalist far big represent end human race know bad copy prime reality gnostics describe bad copy harmony wonder beauty start wetiko yaldabaoth set change simulate copy different process slow start entrap human simulation timeline technologically aware bring intellectual speed suppress spiritually point reach stage technological intellect potential destroy event move fast central american shaman don juan matus say think moment tell explain contradiction intelligence man engineer stupidity system belief stupidity contradictory behaviour sorcerer believe predator give system belief idea good evil social more one set dream success failure give covetousness greed cowardice predator make complacent routinary egomaniacal order obedient meek weak predator engage stupendous manoeuvre stupendous course point view fight strategist horrendous manoeuvre point suffer give mind predator mind baroque contradictory morose fill fear discover predator wetiko archons yaldabaoth jinn version phenomenon culture religion world theme true real reach point deal question fight walk away think use controversial subheading thing move term response global fascism mean fight mean walk away get fight walk away depend mean fight walk away fighting mean physical combat play wetiko game fall trap want angry aggressive direct hate hostility enemy

game fall trap want angry aggressive direct hate hostility enemy think fight war baĵle conflict fight wetiko lead side wetiko want fight place hit son hit wetiko hit wetiko wetiko hit wetiko return forthright expose wetikos cult hate refuse hate want hate fight woker anti hater anti fascist prove time reach keyboard don balaclava walk away mean disengage wetiko include cease cooperate tyranny paul levy say wetiko way defeat evil try destroy play evil game lose find invulnerable place evil unable vanquish truly win battle evil wetiko human society steroid covid hoax shouting match wear mask wetiko wear mask wetiko wear electrical circuit push resist push resist wetiko push resist polarity wetiko empower dictionary definition resist include oppose refuse accept comply word focus oppose form seĵe police car alight refuse accept comply wetiko oppose wetiko point way forward difference aggressively demand government fascism obey stand stark contrast

great majority pushbackers see clearly march thousand pushbackers lockdown london follow day later woker hijacke protest bristol police car set fire mask virtually absent london widespread bristol wetiko want lockdown level society infuse aggression police unknowing stooge lockdown protester one smile face hug blatantly obvious state geĵe obvious day result wokers like influenced simulation field wetiko pushbackers influenced field far high vibration simulation wetiko invade heart lockdown opponent come heart allow lie truth way highlight renegade mind know calmness place wisdom come will find wisdom hissing fit wisdom need abundance right calmness weakness scream voice strong wetiko possess influence know deal wetiko want fight need cooperation mass rally marche great visual representation feeling end irrelevant demand wetikos act differently go wetikos need waste time demand happen difference need delete mean allow happen invariably cooperation demand child stop fire peashooter dog refuse buy peashooter provide mean cooperate dog smack nose pea authority enforce mask wearing million country refuse

74 million pushbackers vote trump 2020 refuse wear mask close business stay home unenforceable control compliance dynamic covid regulation roman empire know people find intimidating authority stand crowd face display hope clear book go far intimidating stand say cooperate enslavement child consequence initially question address go happen time strong unyieldingly mean refuse wear mask obey nonsense comply tyranny repeat fascism impose fascist fascism impose population acquiesce fascism die first body live meekly fascism form death death spirit martin luther king describe make thing happen despair till far fat lady refuse sing long covid hoax drag impact life see awakening phenomenal number people worldwide realisation believe life world research publish system serve university bristol king college london february 2021 conclude 11 people britain trust david icke coronavirus pandemic gather number build urgently progress see scam cease cooperate prominent german lawyer reiner fuellmich licence practice law america psychopath justice second nuremberg tribunal crime humanity fuellmich impressive record beat elite court form german corona investigative commiĵee pursue civil charge main perpetrator view trigger criminal charge importantly grasp foundation hoax pcr test test virus christian drosten

charge sheet gates frontman tedros world health organization major player allow inflict horror human race bring book life sentence follow bill gates rest group researcher indict government norway crime humanity copy send police international criminal court lawsuit cite participation internationally plan false pandemic violation international law human right european commission definition human right coercive rule nuremberg hague rule fundamental human right norwegian constitution initiative hereon complain protest react practical way support vital mass non cooperation organise number lockdown marche london spring 2021 mass non cooperation authority stop people hundred thousand walk london street centre road mile ağer mile face nappy look determined calm histrionic lot smile police impotent organise group shopping mask mutual support imagine happen police impossible store refuse serve people circumstance face long line trolley good stand return shelf cope

keep happen talk move complain pro active watch thing happen make thing happen include relationship police behaviour face nappies disgraceful think find concentration camp guard enlightened modern era myth bust big time period seĵing change wetikos watch film footage london march police thug viciously kick protestor floor fellow face nappies stand ring protect criminal assault crowd far outnumber police long allow happen unchallenged people chant shame circumstance long shame crowd need start make citizen arrest police commit criminal offence brutally aĵack innocent people defenceless woman citizen arrest section 24a uk police criminal evidence pace act 1984 find similar country prefer common law arrest citizen reason come shortly arrest person commiĵe indictable offence reasonable ground suspect commiĵe indictable offence count aĵack police thug fall category citizen arrest stop cause physical injury person suffering physical injury cause loss damage property make off

constable assume responsibility citizen arrest prevent breach peace common law believe breach peace happen relate harm likely presence way think common law version police know crowd member public long stand watch commit thuggery crime think twice act like brownshirts blackshirts common law common sense mention common law important people think law law law case body law common law statute law common law found simple premise harm recognise victimless crime harm statute law statute law statute law amazingly law sea bring ashore cult override law land common law right impose people common law apply harm stitch fine detail people life instead take law sea admiralty law apply population statute law refer law spew government agency include fascist law regulation relate covid key point statute law contract law apply contract corporation police officer know keep dark long ago merchant sailing ship begin trade different country contractual law develop call admiralty law name apply contract agree corporate entity agree contract law sea jurisdiction apply new alias statute law problem cult law sea bring ashore obvious people corporation government entity overcome laĵer government associate organisation corporation institution private corporation mean government agency local council police court military state lot dun bradstreet corporate

listing website confirmation corporation arrest private corporation call police private security guard court private corporation jurisdiction consent contract hear mantra law enforcement police consent people truth people consent theory monumental trickery okay cult overcome corporate law problem make government institution corporate entity people corporation ah sense sense people exactly illusion people cult create corporation time birth certificate issue note birth/ berth certificate court law sea land stand dock throwback origin common law

david vaughan icke corporation create government bear call mr david vaughan icke usually wriĵen capital mr david vaughan icke live breathe man fictitious corporate entity trick think david vaughan icke mr david vaughan icke thing police charge court prosecute corporate entity live breathe man woman trick identify corporate entity contract jurisdiction language know legalese lawful legal lawful relate common law legal relate statute law legalese language statue law use term mean thing public legalese notice police officer tell charge end understand public mean comprehend legalese mean stand stand authority yes question unknowingly agree jurisdiction contract corporate entity confidence trick way contract agree inform party know david vaughan icke agree corporation mr david vaughan icke knowingly agree contract deceive way ask proof identity usually driving licence document accept corporate entity refer person citizen identify corporate fiction common law point citizen arrest approach police officer identify immediately live breathe man woman consent contract understand stand authority common law birth certificate live man available charge commonlawcourt.com business register statute law system mean law apply way run business common law remember covid law regulation statute law law contract contract mean kill away common law say harm apply physical harm financial harm etc police employee private corporation need new system non- corporate common law constable operate outside statute law system davidicke.com common law search engine find video explain common law great detail definitely road walk heart hear people spiritual war like term war wetiko dynamic know mean sweep aside bodily form situation state consciousness seek different reality wetiko want

upheaval chaos fear suffering conflict control want love peace harmony fairness freedom fall idea wetiko all- powerful wetiko powerful joke pathetic choice handful time year feel presence frequency allow aĵach briefly consciously observe nature experience pleasant energy heavy dark ease kick door show real power persuade

energy heavy dark ease kick door show real power persuade power con wetiko con trickster power control unleash con found manipulate humanity power wetiko recycle present illusion power power give away happen energetic level play world see humanity give power wetiko authority use power control population power power population hand way billion control relative experience people possess wetiko kick arse open heart oh yes heart transform world perceive receiver transmiĵer processor information information information process perception main area brain heart belly relate thinking knowing emotion wetiko want head belly people mean think confine matrix simulation low vibrational emotional reaction scramble balance perception minute social media emotion dominant force woke emotion thought free fact free heart different know head think try work know human energy field seven prime vortex connect wide reality fig 23 chakra mean wheel light sanskrit language ancient india main one crown chakra head brow eye chakra centre forehead throat chakra heart chakra centre chest solar plexus chakra sternum sacral chakra beneath navel base chakra boĵom spine particular function function feel anxiety nervousness belly sacral chakra locate process emotion affect colon people shit shit scared nervous chakra play important role mr mrs big heart chakra sit centre seven chakra connect physical connect high realm heart chakra feel love empathy compassion heart go close heart literally heart aĵitude behaviour bill gates native americans portray wetiko paul levy call frigid icy heart devoid mercy bill gates

figure 23

chakra system interpenetrate human energy field heart chakra governor wetiko tremble

thought heart energy infiltrate frequency high seek instead close heart chakra vortex block perceptual energetic influence psychopath heart stone emotionally- damage people heartache broken heart astonishing heart disease relate heart chakra disruption fundamental connection physical heart dr tom cowan wriĵen outstanding book challenge belief heart pump make connection physical spiritual heart rudolph steiner way ahead time say fallacy heart pump heart pump crazy right everybody know read cowan human heart cosmic heart realise idea heart pump ridiculous evidence blood foot far heart pump horizontally body heart cowan explain book real reason blood move physical heart symbolise love source heart vortex spiritual heart powerful energetic connection expand consciousness feel knowing intuitive knowing centre chest knowing come process thought lead conclusion instant heart know connection level awareness know meaning source intuition intuitive 30 year uncover global game nature reality heart constant antenna truth accuracy american intelligence insider say quote disinformer book quote true ask heart antenna answer heart- centred mean closed heart chakra withdraw closed mind bubble five sense reality moment focus aĵention centre chest picture spin wheel light open expand feel happen perception heart like joy love heart impact mind interact chakra open feel expression heart consciousness process continue insight knowing follow open heart connect level awareness know perspective fault line divide illusion control open heart process illusion race creed sexuality brief experience consciousness heart division unity figs 24 25 heart love laugh mark twain quote say human race effective weapon laughter reference heart love laugh joy know true nature infinite reality madness human society illusion mind twain say assault laughter stand true wetiko cult insecurity demand take seriously power authority acknowledge fear sort aggressive fearful insecurity desire laugh face face police come face nappy expect take seriously seriously look

face police come face nappy expect take seriously seriously look like laugh face intimidation laugh face tyranny reaction press buĵon wetiko know face laughter target refuse concede joy fear see example covid hoax people express energetic power string puppet wetiko retreat tail

limp knee laugh world bloody mad ağer choice laughter tear know way go figure 24 head consciousness heart see division apart figure 25 heart consciousness see vaccine soul foundation wetiko archon control human separation incarnate five sense mind infinite close heart chakra true live human life goal achieve complete separation case interested read account french energetic healer say experience patient give covid vaccine genuine energy healer sense information consciousness field different level refer subtle body describe treat patient later return ağer have healer knowledge dose covid vaccine healer say notice immediately change heavy energy emanate subtle body scary thing work heart chakra connect soul detach physical body contact float state total confusion damage consciousness lose contact physical body i.e. biological machine long communication continue treatment send light heart chakra soul person soul long receive light frequency energy powerful experience understand substance detach consciousness consciousness long interact body possess life long contact frequency light energetic balance mind create human rudderless extreme zombie like operate fractional state consciousness mercy wetiko especially intrigue healer say light prediction highly inform rudolf steiner year ago say future eliminate soul medicine pretext healthy point view vaccine human body treat soon possible directly birth human develop thought existence soul spirit materialistic doctor entrust task remove soul humanity today people vaccinate disease disease future child vaccinate substance produce precisely way people thank vaccination immune subject madness spiritual life extremely smart develop conscience true goal materialistic circle steiner say vaccine detach physical body etheric body subtle body etheric body detach relationship universe etheric body extremely unstable man

etheric body detach relationship universe etheric body extremely unstable man automaton say physical body man polish earth spiritual vaccine kind arymanique wetiko force man long rid give materialistic feeling human say materialistic constitution long rise spiritual write year dna receiver transmiĵer information connect level reality vaccine change dna liken change

antenna transmit receive disconnection clearly lead change personality perception steiner predict arrival ai big pharma covid vaccine maker expression wetiko test dna manipulate evil child write view give vaccine baby soul body disconnector child disconnect soul birth vaccine create close system spiritual guidance great self play ambition wetiko pentagon video 2005 leak presentation explain development vaccine change behaviour effect brain believe happen covid genetically modify procedure masquerade vaccine urgent appointment naivety anonymous klaus schwab write 2018 neurotechnologie enable well influence consciousness thought understand activity brain include decode think fine level detail new chemical intervention influence brain correct error enhance functionality plan clear heart stop heart open mind awaken wetiko weaken heart love far powerful head hate like majority need turn phantom heart prime target wetiko answer wetiko heart heart infinite heart heart true self live human life

firewall five sense illusion imposter take place phantom self heart wait patiently set free time choose phantom wetiko wetikoed phantom self wreak mass death destruction love forever lock away heart time unleash power let sweep away fear despair wetiko heart consciousness seek manipulate censor advantage belief religion activism desire expression treat right freedom opinion heart demand fairness unity heart come mutual support transform wetikoed world reality mean place love joy happiness fairness justice freedom wetiko agenda world nonsense wetiko stay heart open work hard closed fear currency food source love true sense fear love fear know eternal exploration possibility love true sense physical aĵraction pass love expression yes infinite love love condition go far deeply core core infinite realty bear love illusion simulation love infinitely express knowing swiǧly pass experience separation temporary hallucination disconnect oneness perceive withdraw influence important perception trickery mind parasite wetiko foundation potential manipulation open heart open sluice gate mind redefine self identity amazing thing start happen consciousness expand contract accordance self identity true self recognise infinite awareness label self phantom self

see series brief experience life transform consciousness expand extent self identity expand change unity division picture pixel play long game experience fleeting moment eternity forever suddenly people uniform dark suit long intimidating consequence action nature brief experience pass blink infinite eye intimidation mind mind open heart consider consequence know right heart power option renegade mind renegade heart consideration consequence provide getaway car mind heart want right light face today stop cooperate wetiko form fear compromise compromise tyranny tyranny demand life perception destiny change perception change life change collective perception change world come people human family heart goal seĵle

big scare story book go press indian variant world deluge propaganda covid catastrophe india mirror lie misrepresentation happen italy first lockdown new york post publish picture collapse street covid india april 2021 actually take gas leak 2020 old old media article mid february ask india untouched covid vaccine rollout gather pace allege case begin rapidly increase indian covid vaccine maker bharat biotech fund existence bill melinda gates foundation pair announce divorce 2021 pity deserve indian covid crisis ramp medium terrify world prepare people submission restriction scam work first time repeat far people see deceit davidicke.com ickonic.com seek tell true story happen talk people live indian nightmare covid post leĵer alisha pune tell different story government medium mendacity say scene die people overwhelmed hospital design hide happen genocide starvation alisha say million die starvation ongoing lockdown government medium lie make look like virus restaurant shop gym theatre basically shut city ghost town call essential business open till 11 morning basically hour buy food time inter state travel inter district travel ban cop wait major crossroad question travel outdoors fine wear mask medical community complicit genocide lie hospital turn away people genuine illness need immediate care create shortage oxygen cylinder classic cult modus operandi play country alisha say people pcr test test virus deny hospital treatment say people hit hard

migrant worker rural area business employ migrant worker close job income food result million die starvation malnutrition happen prime minister narendra modi 100 percent asset cult emphasise scale pure anti- human evil deal australia ban people return home india penalty try five year jail fine £ 37,000 manufacture covid crisis india prepare justify fascism west obvious connection see indian vaccine programme increase case common theme seychelles capita covid vaccinate population world go lockdown ağer surge case long ago truly evil monsanto agricultural biotechnology corporation big connection bill gates devastate indian farming genetically modified crop human right activist gurcharan singh highlight effort

indian government complete job destroy food supply hundred million covid lockdown say 415 million people boĵom disgusting caste system go poverty line struggle feed year government impose lockdown time destroy harvest deliberate policy lead mass starvation people reel suggestion government wetiko control leader capable level evil fact describe india process instigate worldwide food chain food supply target level cause world hunger control bill gates big owner farmland america reason destroy access food aid depopulation agenda plan synthetic food fund existence gates add come hyper- inflation suicidal creation fake money response covid breakdown container ship system cocktail lead way mean cult plan crash entire system build beĵer great report world continue emerge woman suffere menstrual fertility problem ağer have fake vaccine non-'vaccinated have similar problem interact vaccinated far coincidence credible menopausal woman geĵe period have period stop stop week pass clot lining uterus breast irregularity miscarriage increase 400 percent part united states non-'vaccinated man child suffere blood clot nose bleeding ağer interaction vaccinated baby die effect breast milk vaccinated mother awake doctor small minority speculate cause non-'vaccinated suffere effect vaccinated nanotechnology synthetic substance transmiĵe frequency straight chemical bioweapon transmiĵe people say kind chemical transmission possible answer foundation cult frequency fertile ground understand transmission happen

american doctor carrie madej internal medicine physician osteopath practice 20 year teach medical student say aĵending different meeting agenda humanity discuss madej operate georgia dismiss possible form transmission focus frequency search explanation transmission say moderna pfizer vaccine contain nano lipid particle key component brand new technology humanity nanotechnology preĵy liĵle tiny computer bit nanobot hydrogel inside vaccine sci-fi kind substance suppress immune checkpoint cell refer early trojan horse technique trick cell open gateway self replicate synthetic material immune system artificially suppress body defence

madej say substance serve purpose include demand ability deliver payload nano computer bit biosensor body actually ability accumulate datum body like breathing respiration thought emotion kind say technology obviously ability operate wi fi transmit receive energy message frequency impulse imagine geĵe new substance react thing 5 g smart device phone completely foreign human body launch large scale time see 5 g go school hospital plus musk satellite believe vaccine transmission people inside act like antenna actually transmit outwardly synthetic substance produce voltage kind effect fit contention nano receiver transmiĵer design connect people smart grid break receiver transmiĵer connection expand consciousness explain french energy healer experience disconnection body soul vaccine nanobot self replicate inside body transmit synthetic frequency pick close interaction vaccinate madej speculate 5 g increase level radiation cause symptom directly interestingly say non-'vaccinated patient show improvement away vaccinated person interact remember control frequency energy mind consciously create energetic barrier bubble mind stop damage frequency penetrate field american paediatrician dr larry palevsky

say vaccine vaccine design protect viral infection call massive brilliant propaganda genocide inject result want say content jab able infuse material brain heart lung kidney liver sperm female productive system genocide weapon mass destruction time american college ban

student aĵending life change potentially life end vaccine class action lawsuit follow consequence college fascism come light book go press come report fertility effect sperm vaccinate man absolutely fit say hospital continue fill vaccine reaction question transmission blood transfusion nhs extend blood donation restriction seven day ağer covid vaccination 28 day ağer sore arm reaction say spring 2020 tout covid vaccine ongoing year like flu jab year later pfizer ceo appalling albert bourla say people likely need booster dose vaccine 12 month geĵing fully vaccinate yearly shot variant play key role say confirme point johnson johnson ceo alex gorsky take time vaccine disaster people need vaccinate covid-19 year uk health secretary psychopath maĵ hancock say additional booster available autumn 2021 trap vaccine passport public accept vaccine introduce include fake variant cease valid way case continuous testing test test virus swab constantly push noise brain time vaccine change behaviour mention body book believe gather behaviour change vaccinated hear comment non-'vaccinated describe behaviour change friend love one work colleague increase self replicate synthetic material nanoparticle expand body brain article guardian 2016 detail research university virginia charloĵesville develop new method control brain circuit associate complex animal behaviour method dub magnetogenetics involve genetically engineer protein call ferritin store release iron create magnetise substance magneto activate specific group nerve cell distance claim advance method brain activity manipulation know optogenetics chemogenetics cult develop method brain control long time ferritin technique say non- invasive able activate neuron rapidly reversibly word human thought perception article say early study reveal nerve cell protein activate heat mechanical pressure genetically engineer sensitive radio

cell protein activate heat mechanical pressure genetically engineer sensitive radio wave magnetic field aĵache iron store protein call ferritin inorganic paramagnetic particle sensitive radio wave magnetic field mean like 5 g 6 g 7 g human ai smart grid hive mind talk guardian article say researcher inject magneto striatum freely behave mouse deep brain structure contain dopamine produce neuron involve reward motivation place animal apparatus split

magnetised non magnetised mouse express magneto spend far time magnetised area mouse activation protein cause striatal neuron express release dopamine mice find area rewarding show magneto remotely control firing neuron deep brain control complex mistake basic methodology covid vaccine cocktail magnetic change brain function electromagnetic field frequency activation pentagon develop covid vaccine ferritin magnetic explain change behaviour video appear internet write show magnet stick skin point vaccine shot people vaccine possible term brain function illness blame covid-19 variant magnetic field manipulation explain non-'vaccinated report symptom vaccinated interact symptom report decrease company interestingly magneto mutant character marvel comic x men story ability manipulate magnetic field believe mutant fight human oppressor means necessary character bear erik lehnsherr jewish family

germany european court human rights open door mandatory covid-19 vaccine continent rule czech republic dispute childhood immunisation legally enforce vaccination necessary democratic society 17 judge decide compulsory vaccination breach human right law face judgement inverted gasp air have vaccine infuse body human right ah say human right law specifically wriĵen delete human right behest state cult article 8 european convention human rights relate right private life crucial word shall interference public authority exercise right accordance law necessary democratic society interest national security public safety economic wellbeing country prevention disorder crime protection health moral protection right freedom emphasis interference accordance law mean human right eu government decide behest necessary democratic society explain reference judgement interest national security public safety economic country prevention disorder crime protection health moral protection right freedom give eu coach horse ride human right scaĵer direction judiciary check balance government extremism vehicle enforce judgement laughably predictable thing cult want decision go mandatory vaccination judge rule benefit system vaccination dispute come invariably deliver favour doctor authority represent view state own judiciary oh yes call stop

puĵe covid-19 death certificate 28 day positive test claim practice make vaccine appear work laugh scale madness inhumanity thing come highlight vaccinate covid refuse evacuation caribbean island st vincent massive volcanic eruption cruise ship take resident safety island allow vaccinate board rest leğ fate life death situation like covid strip people basic human instinct insanity extreme think fake vaccine'-makers claim body manipulate concoction stop infection transmission virus exist st vincent prime minister ralph gonsalves say chief medical officer identify person vaccinate ship note power chief medical officer like whiĵy uk answer world health organization cult network structure override politician follow science adviser tell gonsalves say resident vaccinate ağer order board ship refuse entry possible effect wooziness head good news woozy head qualify prime minister

effect wooziness head good news woozy head qualify prime minister st european judgement point justify move enforce covid dna manipulate procedure sandra ro ceo global blockchain business council tell world economic forum event hope vaccine passport help drive forced consent standardisation global digital identity scheme hope desire global demand sort vaccine passport people travel work drive force consent standardisation frankly cooperation world lady bright thoroughly mendacious use term forced consent consent force submit describe plan enforce digital identity human function vaccine passport open door far end goal digital identity allow track cyberspace technique cult own china enforce social credit system total control ultimate passport plan microchip book warn nearly 30 year nice people pentagon work cult control defense advanced research projects agency darpa claim april 2021 develop microchip insert skin detect asymptomatic covid-19 infection outbreak revolutionary filter remove virus blood aĵache dialysis machine problem virus exist people transmiĵe virus symptom brain numb bullshit course ruse people microchippe different reason darpa say produce stop vaccine virus variant sinister organisation insane wetiko possess insane researcher salk institute california announce create embryo human monkey book go 1990s expose experiment secret underground facility united states human cross animal non human

extraterrestrial specie ease long develop capability public arena come give deal psychiatric basket case talk elon musk scientist neuralink train monkey play pong puzzle computer screen joystick monkey correct metal tube squirt banana smoothie mouth basic technique train human unquestioning compliance neuralink chip monkey skull 2,000 wire fan brain eventually monkey play video game purely brain wave psychopathic narcissist musk say breakthrough step puĵe neuralink chip human skull merge mind artificial intelligence exactly man dark cult dna world economic fascism wef world economic forum tell plan statement event cult own fascist youtube ceo susan wojcicki speak 2021 wef global technology governance summit 40 government

wojcicki speak 2021 wef global technology governance summit 40 government 150 company meet ensure responsible design deployment emerge technology orwellian translation ensure design deployment long plan technology advance cult agenda control censorship freedom-destroyer nuremberg bind wojcicki express support tech platform like censor content technically legal harmful decide harmful harmful cult want people legislation propose uk government censor content basis harm maĵer information fair legal provably true especially fair legal provably true wojcicki call global coalition form enforce content moderation standard automate censorship woman mega censor self- delude shamelessly accept free expression award

wojcicki event sponsor youtube shame self awareness know covid scam wojcicki cult operative youtube censor medical scientific opinion purely ground support oppose cult covid narrative florida governor ron desantis compile expert panel professor medicine harvard oxford stanford universities speak force child vaccinate people wear mask say proof lockdown reduce spread death rate covid-19 cult- gofer wojcicki youtube delete panel video include content contradict consensus local global health authority efficacy mask prevent spread covid-19 consensus refer cult tell world health organization tell local health authority wojcicki know

course panellist point censorship scientific debate responsible death cause wojcicki care dare tell disgrace humanity want uk government seek pass fascist online safety bill specifically target massive fine mean non censored video social medium platform censor lawful harmful content like cult own facebook twiĵer google youtube lawful harmful decide fascist blair create ofcom wef obsession cyber aĵack financial system clearly cult plan bank account theirs think money cult agenda maĵer get big lesson come continue ignore stare face world economic forum fund gates front klaus schwab announce run simulation russian government global bank aĵack call cyber polygon 2021 simulate covid event 201 plan instigate wef involve project cult own carnegie endowment international peace call wef carnegie cyber policy initiative seek merge wall street bank regulator love intelligence agency prevent arrange allow cyber aĵack bring global financial system long plan control wef carnegie operation carnegie endowment international peace send instruction world war president woodrow wilson let war end society irreversibly transform wuhan lab diversion close cult control authority lapdog medium systematically push virus release wuhan lab narrative version happen accident happen purpose nonsense perceive existence show exist virus vital sell impression actually infective agent deal allow endless potential terrify population variant virus exist authority time writing go accident alternative medium promote purpose cable news host

writing go accident alternative medium promote purpose cable news host tucker carlson question aspect lockdown vaccine compulsion buy wuhan lab story agree say question system medium suddenly agree medium move unit narrative lie witness hour hour mendacity covid era cult own combination unleash lie like machine gun fire suddenly agree tell truth alternative medium buy lie fit conspiracy narrative wrong conspiracy real conspiracy virus cult desperate hide idea virus release accident ludicrous covid hoax clearly long plan wait play fast accordance rockefeller document event 201 prepare detail decade sit strum finger wait accidental release bio lab crazy purpose claim want circulate deadly virus hide fact release street high level bio lab china repeat release far lab stop association place connection certain

need scam case death pay hospital diagnose covid-19 real virus mass death wuhan deadly pathogen recovery normal life ağer initial propaganda dramatic speed deadly pathogen circulate china body street technique tell want hear likely believe alternative medium conspiracy carlson fit china danger narrative year china danger global cult operation centre reason wuhan lab story potential instigate conflict china stage plan trigger problem reaction solution confrontation west question especially medium agree common party line wave fourth wave fifth wave book go production world set lockdown wave support invent variant increase time continue public statement computer program reality india new italy covid propaganda campaign tell frightened new indian strain find document produce uk government entitle summary modelling easing restriction roadmap step 2 declare wave inevitable course script fault child refuse health destroy fake covid vaccine computer model involve come cult- own imperial college warwick university trust tell date calendar factory document state model presume extremely high uptake covid vaccine allow variant document state resurgence result people child ineligible vaccination choose receive vaccine vaccinate perfectly protect mendacity take breath away okay blame

vaccine vaccinate perfectly protect mendacity take breath away okay blame brain will dna modify shot pressure child trial underway involve child young month parent insanity bad massive pressure young fake vaccine child age consent limit systematically lower world stop parent intervene extraordinary document claim wave drive resurgence hospitalisation death dominate receive dose vaccine comprise 60 70 wave respectively predict peak wave suggest 300 death day 250 fully vaccinate people lie acquiescer need tell obvious take jab protect project sick die vaccine document go possible summer low prevalence follow substantial increase incidence follow autumn winter low prevalence late summer take indication sars cov-2 retreat population high level immunity prevent wave tell script british people believe covid restriction end summer 2021 government prepare ongoing authority award contract covid marshal police restriction contract start july 2021 go january 31st 2022 government

advertise media buying service secure medium propaganda slot worth potential £ 320 million covid-19 campaign contract end march 2022 recipient list company report

american medium marketing giant omnicom group inc. money object covid uk waiting list treatment include life threaten condition pass 4.5 million meantime cult seek control official inquiry block revelation happen allow need nuremberg jury trial country cover obvious appoint ultra zionist professor philip zelikow oversee dozen virologist public health official clinician government official american charitable foundation learn lesson covid debacle personnel create perpetuate covid lie zelikow executive director 9/11 commission ensure truth aĵacks come produce report mendacious manipulative document wriĵen trigger detailed exposure unimaginable 9/11 story sabbatians find passive people increasingly challenge authority

amazing number people take street london ability face nappies stop instead nappy choose situation away mass crowd target intimidate seek promote impression violent protestor incident happen london hyde park hundred thousand walk street protest covid fascism ignore cult own bbc rest mainstream medium delight report police injure clash protestor truth group people gather hyde park end march go home peacefully have good time music chat face nappy deal march crowd wade baton get bargain instead stand criminal brutality crowd numerical superiority push face nappies park eventually nappies turn run unfortunately idiot crowd throw drink can strike officer give medium government image want discredit 99.9999 percent peaceful idiot walk straight trap aware potential agent provocateur authority discredit target response crowd people apart turning point public long stand innocent arrest brutally aĵacke face nappies mean violent thing need leave violence face nappies government mean face nappies use violence peaceful people numerical superiority employ stop citizen arrest common law arrest breach peace time passive face fascism need count freedom leğ child grandchild face ongoing fascist nightmare come people time final thought power love force

clean soul flame burn desire love tongue fire purge soul love goal protect hooded claw vampire door chip undying death defy love envy hurt let beautiful sparkling love flower pearl preĵy girl love like energy rushin rushin inside time sublime lover entwine divine divine love danger love pleasure love pure treasure love purge soul love goal power love force clean soul power love force sky scrape dove flame burn desire love tongue fire purge soul love goal frankie go hollywood cowan kaufman morell statement virus isolation isolation action isolate fact condition isolate stand separation thing person oxford english dictionary controversy sars cov-2 virus isolate purifie continue definition common sense law logic dictate science unbiased person come conclusion sars cov-2

law logic dictate science unbiased person come conclusion sars cov-2 virus isolate purifie result confirmation virus existence find logical common sense scientific consequence fact structure composition show exist know include presence structure function hypothetical spike protein genetic sequence find variant show exist impossible demonstrate sars cov-2 cause disease concise term possible proper way isolate characterize demonstrate new virus take sample blood sputum secretion people e.g. 500 symptom unique specific characterize illness mix sample tissue product contain genetic material virologist macerate filter ultracentrifuge i.e. purify specimen common virology technique decade isolate bacteriophages1 call giant virus virology lab allow virologist demonstrate electron microscopy thousand identically size shape particle particle isolate purified identical particle check uniformity physical and/or microscopic technique purity determine particle characterize include examine structure morphology chemical composition particle genetic makeup characterize extract genetic material directly purified particle genetic sequencing technique sanger sequencing decade analysis confirm uniform particle exogenous outside origin virus conceptualize normal breakdown product dead die tissues.2

2020 know virologist way determine particle see virus normal break- product dead die

tissues.)3

isolation characterization analysis bacteriophage haloalkaline lake elmenteita kenyajuliah khayeli akhwale et al plos publish april 25 2019 extracellular vesicle derive apoptotic cell essential link death regeneration maojiao li1 et al frontiers cell developmental biology 2020 october 2 role extraellular vesicle ally hiv hcv sars viruses flavia giannessi et al viruses 2020 come far fully isolate characterize genetically sequence exogenous virus particle causally related disease carry expose group healthy subject animal usually isolate purified virus manner disease think transmiĵe animal sick disease confirme clinical autopsy finding show virus actually cause disease demonstrate infectivity transmission infectious agent step aĵempte sars cov-2 virus step successfully perform call pathogenic virus research indicate single study show step exist medical literature instead 1954 virologist take unpurified sample relatively people oğen similar disease minimally process sample inoculate unpurified sample tissue culture contain usually type material contain identical genetic material call virus tissue culture starve poison naturally disintegrate type particle contain genetic material common sense logic use english language scientific integrity process call virus isolation brew contain fragment genetic material source subject genetic analysis create computer- simulation process allege sequence allege virus call silico genome time actual virus confirme electron microscopy time genome extract sequence actual virus scientific fraud observation unpurified specimen inoculate tissue culture toxic antibiotic bovine fetal tissue amniotic fluid tissue destroy kidney tissue inoculate give evidence virus existence pathogenicity scientific fraud give paper suggest sars cov-2 virus isolate check method section researcher vero cell culture method know process isolation hear following excuse actual isolation 1 virus particle find sample patient analyze 2 virus intracellular parasite find outside cell manner people evidence think virus dangerous person person tell emerge cell infect possible find finally question virology technique conclusion distraction divisive issue shine light truth essential stop terrible fraud humanity confront know virus isolate sequence show cause

terrible fraud humanity confront know virus isolate sequence show cause illness virus imaginary wear mask social distance puĵe world finally pathogenic virus exist go injectable device erroneously call vaccine purpose scientific question urgent relevant time correct sars cov2 virus exist sally fallon morell ma dr. thomas cowan md dr. andrew kaufman md alinsky saul rules radicals vintage 1989 antelman rabbi marvin eliminate opiate zahavia 1974 bastardi joe climate chronicles relentless thunder press 2018 cowan tom human heart cosmic heart chelsea green publishing 2016 cowan tom fallon morell sally contagion myth skyhorse publishing 2020 forbes jack d columbus cannibal wetiko disease exploitation imperialism terrorism seven stories press 2008 originally publish 1979 gates bill avoid climate disaster solution breakthrough need allen lane 2021 huxley aldous

brave new world chaĵo windus 1932

köhnlein dr claus engelbrecht torsten virus mania emu vertag lahnstein 2020 lanza robert berman bob biocentrism benbella books 2010 lash john lamb image chelsea green publishing 2006 lester dawn parker david make ill think know disease wrong independently publish 2019 levy paul dispel wetiko break spell evil north atlantic books 2013 marx karl world jews philosophical library first edition 1959 mullis kary dance naked field bloomsbury 1999 o'brien cathy trance formation america reality marketing 1995 scholem gershon messianic idea judaism schocken books 1994 schwab klaus davis nicholas shape future fourth industrial revolution guide build well world penguin books 2018 schwab klaus great reset agentur schweiz 2020 sunstein cass thaler richard nudge improve decision health wealth happiness penguin 2009 swan shanna count modern world threaten sperm count alter male female reproductive development imperil future human race tegmark max mathematical universe quest ultimate nature reality velikovsky immanuel worlds collision paradigma 2009 wilton robert days romanovs blurb 2018 first publish 1920 blame abuse ref1 child ref1 ref2 ref3 ref4

dioxide ref1 ref2 care home death ref1 ref2 cashless digital money system ref1 censorship ref1 ref2 ref3 ref4 ref5 medium ref1 ref2 private message ref1 social medium ref1 ref2 ref3

ref1 ref2 private message ref1 social medium ref1 ref2 ref3 ref4 ref5 ref6 transgender person ref1 vaccine ref1 ref2 ref3 centers disease control cdc united states ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 ref11 ref12 ref13 centralisation ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 change agent ref1 ref2 ref3 chemtrail ref1 ref2 ref3 chief medical officer scientific adviser ref1 ref2 ref3 ref4 child young people abuse ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 care take ref1 ref2 ref3 education ref1 ref2 ref3 ref4 family court ref1 hand sanitiser ref1 human sacrifice ref1 lockdown ref1 ref2 ref3 mask ref1 ref2 ref3 ref4 ref5 mental health ref1 old people ref1 parent replacement ref1 ref2 psyop psychological operation covid ref1 ref2 smartphone addiction ref1 social distancing isolation ref1 social media ref1 transgender person ref1 ref2 united states ref1 vaccine ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 wetiko factor ref1 china ref1 ref2 ref3 ref4 anal swab test ref1 chinese revolution ref1 ref2 ref3 digital currency ref1 global cult ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 guaranteed income ref1 imperial college ref1 lockdown ref1 ref2 masculinity crisis ref1 origin virus china ref1 ref2 ref3 ref4 ref5 pollution cause respiratory disease ref1 sabbatians ref1 ref2 smart grid ref1 ref2 social credit system ref1 testing ref1 ref2 united states ref1 ref2 vaccine ref1 ref2 wetiko factor ref1 wet market conspiracy ref1 wuhan ref1 ref2 ref3 ref4 ref5 ref6 ref7 cholesterol ref1 ref2 christianity ref1 ref2 ref3 ref4 ref5 cross inversion ref1 nag hammadi text ref1 ref2 ref3 roman catholic church ref1 ref2 sabbatians ref1 ref2 satan ref1 ref2 ref3 ref4 class ref1 ref2 climate change hoax ref1 ref2 ref3 ref4 ref5 agenda 21 agenda 2030 ref1 ref2 ref3 carbon dioxide ref1 ref2 club rome

2030 ref1 ref2 ref3 carbon dioxide ref1 ref2 club rome ref1 ref2 ref3 ref4 ref5 global cult ref1 green new deal ref1 green party ref1 perception control ref1 temperature increase ref1 united nations ref1 ref2 wokeness ref1 ref2 clinton bill ref1 ref2 ref3 ref4 ref5 ref6 clinton hillary ref1

ref2 ref3 cloud ref1 ref2 ref3 ref4 ref5 ref6 ref7 club rome climate change hoax ref1 ref2 ref3 ref4 ref5 cognitive therapy ref1 cohn roy ref1 common law ref1 admiralty law ref1 arrest ref1 ref2 contractual law statute law ref1 corporate entity people ref1 sea law ref1 statute law ref1 common purpose leadership programme ref1 ref2 communism ref1 ref2 covid-19 ref1 ref2 ref3 computer model ref1 ref2 ref3 ref4 ref5 connection ref1 ref2 ref3 ref4 consciousness ref1 ref2 ref3 ref4 archon ref1 ref2 ref3 expand ref1 ref2 ref3 ref4 ref5 ref6 ref7 infinity ref1 ref2 religion ref1 ref2 simulation thesis ref1 wetiko factor ref1 ref2 conspiracy theorist ref1 ref2 ref3 ref4 ref5 contradictory rule ref1 corman drosten test ref1 ref2 ref3 ref4 countermimicry ref1 ref2 ref3 covid-19 vaccine vaccine covidiot ref1 ref2 cowan tom ref1 ref2 ref3 ref4 crime humanity ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 darpa defense advanced research projects agency ref1 care home ref1 certificate ref1 ref2 ref3 ref4 mortality rate ref1 record ref1 ref2 ref3 ref4 ref5 ref6 ref7 vaccine ref1 ref2 ref3 ref4 ref5 pyramid deceit ref1 ref2 sequence deceit ref1 decoding ref1 ref2 ref3 dehumanisation ref1 ref2 ref3 delphi technique ref1 dependency ref1 ref2 ref3 ref4 ref5 descartes rené ref1 vaccine ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 dnr resuscitate domestic abuse ref1 ref2 downgrading covid-19 ref1 drosten christian ref1 ref2 ref3 ref4 ref5 ref6 ref7 duesberg peter ref1 ref2 economic abuse ref1 edmunds john ref1 ref2 education ref1 ref2 ref3

abuse ref1 edmunds john ref1 ref2 education ref1 ref2 ref3 ref4 electromagnetic spectrum ref1 ref2 enders john ref1 archons ref1 ref2 ref3 child young people ref1 frequency ref1 ref2 ref3 ref4 human energy field ref1 source human energy ref1 ref2 epstein jeffrey ref1 ref2 eternal ref1 ref2 ethylene oxide ref1 european union ref1 ref2 ref3 ref4 event ref1 bill gates ref2 exosome covid-19 natural defence mechanism call ref1 experience ref1 ref2 extinction rebellion ref1 ref2 addiction ref1 448–50 censorship ref1 ref2 ref3 hate speech ref1 monopoly ref1 private message censorship ref1 united states election fraud ref1 wetiko factor ref1 fauci anthony ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 fear ref1 ref2 ref3 ref4 climate change ref1 computer model ref1 conspiracy theory ref1 hospital ref1 italy ref1 ref2 ref3 lockdown

ref1 ref2 ref3 ref4 mask ref1 ref2 medium ref1 ref2 medical staff ref1 psyop psychological operation covid ref1 wetiko factor ref1 ref2 female infertility ref1 fermi paradox ref1 ferguson neil ref1 ref2 ref3 ref4 ref5 ref6 ref7 fertility decline ref1 field ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 finance banking finance money sense ref1 ref2 archons ref1 ref2 ref3 consciousness expansion ref1 ref2 ref3 ref4 ref5 ref6 education ref1 ref2 field ref1 ref2 god personification ref1 infinity ref1 ref2 perceptual programming ref1 ref2 phantom self ref1 pneuma nous ref1 wetiko factor ref1 ref2 ref3 ref4 ref5 ref6 5 g ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 floyd george protest killing ref1 flu labelling ref1 ref2 ref3 food water control ref1 ref2 freemasons ref1 ref2 ref3 ref4 ref5 ref6 frei rosemary ref1 archons ref1 ref2 ref3 chanting mantra ref1 decoding ref1 ref2 electromagnetic emf frequency ref1 energy ref1 ref2 ref3 ref4 field ref1 ref2 5 g ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10

five sense ref1 ref2 human meaning ref1 light ref1 ref2 love ref1 ref2 reality ref1 ref2 ref3 wetiko ref1 ref2 ref3 fuellmich reiner ref1 ref2 ref3 furlough rescue payment ref1 gallo robert ref1 ref2 ref3 archons ref1 ref2 ref3 climate change ref1 ref2 ref3 ref4 daily pass tracking system ref1 five sense ref1 great reset ref1 imperial college ref1 ref2 johns hopkins university ref1 ref2 ref3 lockdown ref1 ref2 nuremberg trial proposal ref1 ref2 rockefellers ref1 ref2 social distancing isolation ref1 sun dim ref1 synthetic meat ref1 ref2 vaccine ref1 ref2 ref3 ref4 ref5 ref6 ref7 wellcome trust ref1 wetiko factor ref1 ref2 ref3 ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 world economic forum ref1 ref2 ref3 ref4 gates melinda ref1 ref2 ref3 gavi vaccine alliance ref1 genetic manipulation ref1 ref2 ref3 germany ref1 ref2 ref3 ref4 ref5 ref6 nazi germany global cult ref1 ref2 ref3 ref4 ref5 anti human global cult ref1 black lives maĵer blm ref1 ref2 ref3 ref4 china ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 climate change hoax ref1 contradictory rule ref1 covid-19 ref1 ref2 ref3 geographical origin ref1 mainstream medium ref1 ref2 mask ref1 ref2 non human dimension ref1 political party ref1 ref2 pyramidal hierarchy ref1 ref2 ref3 sabbantian frankism ref1 ref2 science manipulation ref1 spider web ref1 transgender person ref1 control cult ref1 wokeness ref1 ref2 ref3 ref4 globalisation ref1

ref1 ref2 ref3 ref4 political puppet ref1 pollution ref1 ref2 ref3 postage stamp consensus ref1 ref2 pre emptive programming ref1 problem reaction solution ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 project new american century ref1 ref2 ref3 ref4 psychopathic personality ref1 heart energy ref1 lockdown ref1 ref2 ref3 police ref1 ref2 ref3 ref4 recruitment ref1 ref2 wetiko ref1 ref2 psyop psychological operation covid ref1 ref2 ref3 ref4 pushbacker ref1 ref2 ref3 ref4 pyramid structure ref1 ref2 ref3 ref4 qanon psyop ref1 ref2 ref3 racism black lives anti racism industry ref1 critical race theory ref1 reverse racism ref1 white privilege ref1 ref2 white supremacy ref1 ref2 ref3 ref4 ref5 wokeness ref1 ref2 ref3 radiation ref1 ref2 randomness illusion ref1 ref2 ref3 reality ref1 ref2 ref3 reframing ref1 ref2 change agent ref1 ref2 climate change ref1

reframing ref1 ref2 change agent ref1 ref2 climate change ref1 common purpose leadership programme ref1 ref2 contradictory rule ref1 mask ref1 ref2 nlp delphi technique ref1 wetiko factor ref1 wokeness ref1 ref2 religion particular religion alien invasion ref1 archon ref1 ref2 consciousness ref1 ref2 control system ref1 ref2 ref3 criticism prohibition ref1 five sense ref1 good evil war ref1 hidden non human force ref1 ref2 save syndrome ref1 repetition mind control ref1 ref2 ref3 reporting snitching encouragement ref1 ref2 reptilians grey entity ref1 rewire mind ref1 rivers thomas milton ref1 ref2 rockefeller family ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 rockefeller foundation document ref1 ref2 ref3 ref4 roman empire ref1 rothschild family ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 rt pcr test ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 collusion inquiry ref1 russian revolution ref1 ref2 sabbantian frankism ref1 ref2 anti semitism ref1 ref2 banking finance ref1 ref2 ref3 china ref1 ref2 israel ref1 ref2 ref3 ref4 ref5 judaism ref1 ref2 ref3 ref4 ref5 medium ref1 ref2 nazi ref1 ref2 rothschilds ref1 ref2 ref3 ref4 ref5 ref6 saudi arabia ref1 silicon valley ref1 united states ref1 ref2 ref3 wetiko factor ref1 wokeness ref1 ref2 ref3 sage scientific advisory group emergencies ref1 ref2 ref3 sars cov-2 ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 satan satanism ref1 ref2 ref3 ref4 ref5 ref6 ref7 satellite low orbit ref1 saudi arabia ref1 save syndrome ref1 schwab klaus ref1 ref2 ref3 ref4 ref5 ref6

ref7 ref8 ref9 ref10 science manipulation ref1 self identity ref1 ref2 ref3 ref4 self respect attack ref1 september 11 2001 terrorist attack united states ref1 ref2 77th brigade uk military ref1 ref2 ref3

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ref5 ref6 ref7 ref8 bioweapon real ref1 ref2 black ethnic minority community ref1 blood clot ref1 ref2 brain computer interface bci ref1 care home death ref1 censorship ref1 ref2 ref3 chief medical officer scientific adviser financial interest child ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 china ref1 ref2 clinical trial ref1 ref2 ref3 ref4 ref5 ref6 compulsory vaccination ref1 ref2 ref3 computer program ref1 creation covid ref1 cytokine storm ref1 death illness cause vaccine ref1 ref2 ref3 ref4 ref5 developing country ref1 digital taĵoos ref1 dna manipulation ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 emergency approval ref1 ref2 ref3 ref4 ref5 female infertility ref1 genetic suicide ref1 global cult ref1 heart chakra ref1 human 2.0

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visual reality ref1 ref2 vitamin d ref1 ref2 von braun wernher ref1 ref2 war zone hospital myth ref1 waveform ref1 ref2 wealth ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 ref10 ref11 wet market conspiracy ref1 wetiko factor ref1 alcoholism drug addiction ref1 anti human global cult ref1 archons ref1 ref2 ref3 ref4 artificial intelligence ai ref1 big pharma ref1 ref2 consciousness ref1 ref2 fear ref1 ref2 frequency ref1 ref2 gates ref1 ref2 global cult ref1 ref2 heart ref1 ref2 native american concept ref1 psychopathic personality ref1 ref2 reframing retraining programme ref1 silicon valley ref1 smart grid ref1 smartphone addiction ref1 ref2 social media ref1 war ref1 ref2 wokeness ref1 ref2 ref3 yaldabaoth ref1 ref2 ref3 ref4 whistle blowing ref1 ref2 ref3 ref4 ref5 ref6 ref7 white privilege ref1 ref2 white supremacy ref1 ref2 ref3 ref4 ref5 whitty christopher ref1 ref2 ref3 ref4 ref5 ref6 ref7 ref8 ref9 benefit ref1 wi fi ref1 ref2 ref3 ref4 wikipedia ref1 ref2 wojcicki susan ref1 ref2 ref3 ref4 ref5 ref6 ref7 antifa ref1 ref2 ref3 ref4 billionaire social justice warrior ref1 ref2 ref3 capitol hill riot ref1 ref2 climate change hoax ref1 ref2 education control ref1 fascism ref1 ref2 ref3 global cult ref1

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