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172	f 100 PU_2015_308 ogen fixation in root nodule begins after the formation of:-
	Bacteriod
	Infection thread
\Box	Hartig net
	Symbiosome
192	PU_2015_308 evirus species preventing multiplication of a second virus is called:- supervision Permutation Mutation Viral interference
174 The emit	PU_2015_308 standard notation for radioisotope production is ¹⁴ N(n,p) ¹⁴ C, Radioisotope produced and particles ted in this process are:- ¹⁴ C, n ¹⁴ C, p ¹⁴ N, p
176 Glud	F 100 PU_2015_308 cose labeled with ¹⁴ C at C-1 is added to a solution containing the enzymes and cofactors of the ative phase of the pentose phosphate pathway. The radioactive label will be observed at:-
	C4 of ribulose 5-phosphate
	C1 of ribulose 5-phosphate
\Box	C5 of ribulose 5-phosphate
	None of the carbon of ribulose 5-phosphate will have radiolabel
142	PU_2015_308 mechanism that cause a gene to move from one linkage group to another is: Translocation Crossing over
C	Duplication
	Inversion

141 Whi	F 100 PU_2015_308 ch of the following histone proteins are not involved in nucleosome assembly? H2B H2A
	H1
	H4
184	F 100 PU_2015_308 exycillin is combined with clavulanic acid to inhibit:- DNA gyrace lactamase enzymes
	Protein synthesis
	Cell synthesis
130	F 100 PU_2015_308 In the place only class of immunoglobulin that can pass through the placenta: IgA IgG IgM IgE
196	PU_2015_308 example of an artificial virus is:- Vaccinia virus Mumps virus Reovirus Rabies virus
173	of 100 PU_2015_308 action of glycogen phosphorylase, a molecule of is released in one step. Glucose 6 phosphate Glucose
	Glucose 1 phosphate
	Inorganic phosphate

101 A d	of 100 PU_2015_308 isease in which a pathogen remains inactive for a long period of time before becoming active is ned a:-
	Subacute disease
	Latent disease
	Chronic disease
	Acute disease
138 Is n	of 100 PU_2015_308 ot a factor responsible for the pathogenecity of virulent <i>Staphylococcus aureus</i> :-
	B-lactamase
	hyaluronidase
	M-protein
	coagulase
151 The	of 100 PU_2015_308 consensus sequence required for the initiation of translation is termed:-
	Pribnow Box
	Shine Dalgarno Sequence
	TATA Box
	Kozak Sequence
160	of 100 PU_2015_308 non-obligatory interaction if both partners are mutually benefitted it is called as:-
	Cooperation
	Commensalism
	Competition
	Mutualism
157	of 100 PU_2015_308 crificity of an enzyme depends on:-
	Km
	Turnover number
	Active site
	Vmax

178	PU_2015_308 source of one of the nitrogen of Urea is:- Glutamine Glycine Arginine NH ₄ ⁺
195 The	of 100 PU_2015_308 subunits of IL-4 receptor are:- a) IL-4Rα and γC b) IL-4Rα and β c) IL-4Rα and IL-13R d) both (a) and (c)
143	PU_2015_308 nes or proteins that display common activity but not common origin are termed as: Heterologs Homologs Paralogs Analogs
194	PU_2015_308 mented RNA is seen in:- Coxsackie B virus Rabies virus Influenza virus Rabies Virus
190	of 100 PU_2015_308 erophile antibodies are found in:- Infectious mononucleosis Rickettisial Pox Epidemic typhus Endemic typhus

170 The	of 100 PU_2015_308 aminotransfereases require which prosthetic group?
	Tetrahydrofolic acid
	NADH
	Pyridoxal phosphate
C	Biotin
104	of 100 PU_2015_308 ch of the following vaccine types is commonly given with an adjuvant? An attenuated vaccine A chemically killed vaccine An immunoglobulin
\Box	A modified live vaccine
136	PU_2015_308 soid is not a:- ribozyme satellite nucleic acid non coding RNA viroid with capsid
156 Res	PU_2015_308 PU_2015_308 Attriction endonucleases from two different organisms that recognise the same DNA sequence for avage are called: Isoschizomers Concatamers Palindomes
	Isozymes
179	PU_2015_308 anese encephalitis is caused by:- Arbo Viruses Ortho myxo Viruses Toga Viruses
C	Para myxo Viruses

164 If to	of 100 PU_2015_308 50µl of 0.5M solution A, water is added to get a final volume of 2 ml, what is the final concentration? 12.5 mM 50 mM 25 mM 1 mM
198	of 100 8 PU_2015_308 8 ich of the following is true about influenza? Nucleocapsid is protective Large epidemics is due to antigenic drift Has double stranded RNA Neuraminidase and hemagglutination are specific
177 The syn	Υ
153 Whi	of 100 PU_2015_308 ich of the following is a natural inducer of <i>lac</i> operon in <i>E. coll?</i> IPTG Allolactose Lactose Galactose
154	of 100 PU_2015_308 ich of the following processes does not take place in the 5´→3´direction? Nick translation DNA replication Transcription RNA editing

134 Maj	of 100 4 PU_2015_308 jor antigenic change in influenza virusenza A viruses infecting the same hantigenic shift antigenic variation antigenic drift antigenic modulation	us that results probably due to gene reasssortment from different nost is called:-
152	of 100 2 PU_2015_308 characteristic property of stem cell is: Metastasis Self renewal Terminal differentiation Senescence	:-
139	of 100 9 PU_2015_308 int mutation in which there is an addi Deletion Transversion Frame shift mutation Transition	ition or deletion of a base pair is termed as:-
191	of 100 1 PU_2015_308 e virus which does cause hemagglut Reovirus Enterovirus Rubella Myxovirus	ination of human erythrocytes is:-
137	of 100 7 PU_2015_308 tch the following:-	
	Disease	Causative agent
a) b)		

iii) Clostridium perfringes

iv) Yersinia pestis

Codes:-

c) Plague

c) Plague d) Gas gangrene

	(a)-ii, (b)-iii, (c)-iv, (d)-i
	(a)-i, (b)-ii, (c)-iii, (d)-iv
	(a)-ii, (b)-i, (c)-iv, (d)-iii
	(a)-iv, (b)-ii, (c)-iii, (d)-i
155	of 100 PU_2015_308 osomal subunits are assembled in:-
	Nucleus
	Nucleolus
	Endoplasmic reticulum
	Cytoplasm
181 Sym	of 100 PU_2015_308 pptoms of acute aflatoxicosis:-
	a) Osteogenic sarcoma
	b) Lymphatic leukemia
	c) Malaise & Anorexia
	d) Both (a) and (b)
	a) 2011 (a) and (b)
132	of 100 PU_2015_308 first screening test commonly employed for HIV:-
132 The	of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test
132 The	of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA
132 The C	of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence
132 The C C C	of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test
132 The C C C 39 (162 Whi	of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence
132 The C C C 39 (of 100 PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308
132 The C C C S 39 (162 Whi C C C C C C C C C C C C C C C C C C C	PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308 ch of the following enzyme plays role in ethanol fermentation?
132 The C C C 39 (162 Whi	PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308 ch of the following enzyme plays role in ethanol fermentation? Pyruvate carboxylase
132 The C C C S 39 (162 Whi C C C C C C C C C C C C C C C C C C C	PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308 ch of the following enzyme plays role in ethanol fermentation? Pyruvate carboxylase Isocitrate dehydrogenase
132 The C C C C C C C C C C C C C C C C C C C	PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308 ch of the following enzyme plays role in ethanol fermentation? Pyruvate carboxylase Isocitrate dehydrogenase Pyruvate decarboxylase
132 The C C C C C C C C C C C C C C C C C C C	PU_2015_308 first screening test commonly employed for HIV:- immunoperoxidase test ELISA Immunoflorescence complement fixation test of 100 PU_2015_308 ch of the following enzyme plays role in ethanol fermentation? Pyruvate carboxylase Isocitrate dehydrogenase Pyruvate decarboxylase Pyruvate dehydrogenase Pyruvate dehydrogenase Of 100 PU_2015_308

	More than one monosaccharide units
	More than one glysosidic linkage
150 The	of 100 PU_2015_308 nucleotide sequence of DNA involved in binding to a transcription factor can be determined by:- S1 nuclease Northern blotting Southern blotting DNA footprinting
180	of 100 PU_2015_308 It is caused by:- Staphylococcus Gonococcus Streptococcus Candida
183	of 100 PU_2015_308 g resistance to sulphonamides is due to:- Folic acid synthetase Production of PABA Drug alteration Low affinity for drug synthesis by bacteria
159	PU_2015_308 ich of the following amino acids is optically inactive? Proline Methionine Glycine Tryptophan
163	of 100 PU_2015_308 carbon skeleton of a fatty acid is 18:1(Δ ⁹). It means:- The fatty acid is unsaturated with 9 C=C bonds The fatty acid is unsaturated with 1 C=C bond between C8 and C9 The fatty acid is unsaturated with 1 C=C bond between C9 and C10 The fatty acid is saturated

103	PU_2015_308 In inducible operon, the genes are:- always expressed usually expressed unless a signal turns them "off" never expressed usually not expressed unless a signal turns them "on"
131	PU_2015_308 ch of the virus requires a helper virus for replication? Hepatitis C virus Hepatitis D virus Hepatitis E virus Hepatitis A virus
175 1 M C C	of 100 PU_2015_308 icrocurie = Becquerrels. 3.7 X 10 ¹⁰ 3.7 X 10 ⁷ 1 3.7 X 10 ⁴
193	PU_2015_308 PCR is used in diagnosis of All except:- Astrovirus Adeonvirus Polio virus Rotavirus
133 Roc	PU_2015_308 ky mountain spotted fever is caused by:- Chlamydia Mycoplasma Listeria Rickettsia

102 PU_2015_308 When pathogenic bacterial cells lose the ability to make adhesion, they:-

	Increase in virulence
	Produce endotoxin
\Box	Become avirulent
\Box	Absorb endotoxin
158	of 100 8 PU_2015_308 which stage of the cell cycle, the diploid cell will have twice the amount of DNA as the gamete? M phase G1 phase G2 phase S phase
197	of 100 PU_2015_308 most definitive diagnostic method for polio is:- Virus isolation from CSF Serological diagnosis Virus isolation from feces or throat Virus isolation from blood
144	of 100 PU_2015_308 e attenuated vaccines are available against the following viruses except:- Varicella Zoster virus Yellow fever virus Influenza virus Rubella virus
199	of 100 PU_2015_308 patitis B is not transmitted by:- Congenital transmission Feco-oral route Blood transfusion Sexual contact
171	of 100 PU_2015_308 e form of nitrogen that is most usable in plants is:- Nitrite

\Box	Ammonia
	Molecular nitrogen
100 A p	of 100 PU_2015_308 atient contracted athlete's foot after long-term use of a medication. His physician explained that the lady was directly related to the medication. Such infections are termed: Exogenous infection Endogenous infection latrogenic infection
\Box	Nosocomial infection
182	of 100 2 PU_2015_308 sistant to drugs in tuberculosis develops by:- Mutation Transduction Transformation Conjugation
135 Tris	of 100 5 PU_2015_308 somic can be represented as:- n-1 2n+2 2n+1 n
140	of 100 PU_2015_308 e enzyme inhibition in which the Vmax stays the same while Km is altered:- Uncompetitive Non-competitive Allosteric Competitive
237 The	of 100 7 PU_2015_308 2 membrane lipid molecules assemble spontaneously into bilayers when placed in water and form a sed spherical structure known as:- Endosome Liposome

	Peroxisome
	Lysosome
234	PU_2015_308 current genus name of a saccharolytic group of Bacteroides is:- Ascomyces Sccharomyces Porphyromonas Pseudomonas
233	PU_2015_308 teurization kills present in milk. Only pathogenic bacteria-Controversy answer All bacteria Multidrug resistant bacteria All bacteria and bacterial spores
254	PU_2015_308 -tRNAs are synthesized by:- RNA polymerase II RNA polymerase I aminoacyl tRNA synthetase RNA polymerase III
249	PU_2015_308 scientist who received the Nobel Prize for the discovery of jumping gene is James Watson Andrew Fire Karry Mullis Barbara McClintock
251	of 100 PU_2015_308 lacZ gene in lac operon codes for lactate dehydrogenase β-galactosidase lactamase gelatinase

252 Lac	of 100 2 PU_2015_308 3 operon is an example of:-
	Overlapping operon
	Repressible operon
	Attenuation operon
	Inducible operon
239	of 100 PU_2015_308 k out the vector using in human Genome project:- Cosmid vectors Yeast artificial chromosomes Yeast episomal plasmids Phagemid vector
248 Wh	of 100 B PU_2015_308 ich subunit of the ribosome binds to the 5' cap in eukaryotic mRNA?
	50s
	60s
	30s
	40s
231 Wh ribo	of 100 PU_2015_308 ich of the following scientists of Indian origin received Nobel Prize in 2009 for his research on osomes?
	V. Ramanujam
	G. N. Ramchandran
	V. Ramakrishanan
	Hargobind Khorana
238 The mut	of 100 B PU_2015_308 be base analog 2-aminopurine pairs with thymine, and can occasionally pairs with cytosine. The type of tation induced by 2-aminopurine is:-
	Transition
	Nonsense
	Deletion
	Transversion

224	of 100 PU_2015_308 y the bacterium <i>Treponema pallidum</i> is difficult to culture?
	Because it lacks the genes needed for glycolysis and oxidative phosphorylation
	Because it lacks the genes needed for TCA cycle and oxidative phosphorylation
	Because it lacks the genes needed for urea cycle and oxidative phosphorylation
	Because it lacks the genes needed for fatty acid oxidation and oxidative phosphorylation
236	of 100 5 PU_2015_308 of the following processes occur in the mitochondria of mammalian cells EXCEPT:- Fatty acid biosynthesis
	DNA synthesis
C	The citric acid cycle
	Beta oxidation of fatty acids
232	of 100 PU_2015_308 If irst synthetic bacterium was generated on the genome of: Bacillus subtilis Mycoplasma Pseudomonas putida E. coli
246 Whi	of 100 5 PU_2015_308 ich of the following is a non-composite transposon? Tn9 Tn5 Tn10 Tn3
222 Whi L	of 100 PU_2015_308 ich of the following gives information about conformational change in proteins? CD/ORD Mass spectrometry FPLC
	HPLC

253	of 100 PU_2015_308
Antı	codons are present on:- rRNA
C	mRNA
	snRNA
	tRNA
223	of 100 PU_2015_308 e principal function of complement is to:-
	cross link allergens
	inactivate perforins
	phagocytize antigens
	bind antibodies attached to cell surfaces and to lyse these cells
247	PU_2015_308 Shine-Dalgarno sequence in prokaryotes recognises the sequence from:- 18s rRNA 23s rRNA
	16s rRNA
	5s rRNA
221	PU_2015_308 which of the following organelles co-translational transport of proteins takes place? Lysosome Endoplasmic Reticulum Nucleus Mitochondria
287	of 100 PU_2015_308 illus thuringiensis (Bt) strains have been used to design novel:-
	Bio-insecticidal plants
	Biofertilizers
	Bio-metallurgical techniques
C	Bio-mineralization processes

285	of 100 PU_2015_308 rr Savr tomato is an example of a:-
	genetically modified food
	probiotic food
	fermented food
	pasteurized food
291 Whi	PU_2015_308 ch of the following is false about the <i>E. coli</i> Lac operon?
	It is an example of negative control
	The presence of lactose acts as an inducer
	It is polycistronic
Li	The repressor binds to the promoter
263 The	of 100 PU_2015_308 technique involved in comparing the DNA components of two samples is known as:-
	Recombinant DNA technology
	Polymerase chain reaction
	Genetic finger printing
Li	Monoclonal antibody techniques
292 In pi	PU_2015_308 rotein synthesis termination codons include all except:- UAA UGA UAG
261 The	PU_2015_308 resolution power of the compound microscope is:- 0.2 micron 0.2 millimeter
	0.2 Angstrom units 0.2 centimeter
	U.Z Certuinetei

279	of 100 PU_2015_308 of the following are true of antigen EXCEPT which one of the following?
	They contain epitopes
C	
	They contain paratopes
	They can elicit an immune response
HI	They will react with antibodies
289 Rep	of 100 PU_2015_308 pressor molecules bind to the:-
	Promoter
	Operator
	Hormone response element
	Enhancer
271 Artif	of 100 PU_2015_308 ricial transformation in laboratory is carried out by treating the cells with:-
	NaCl
	MgCl ₂
	Cacl ₂
	HCI
288	of 100 PU_2015_308 ion of two dissimilar gametes is called:-
	dichogamy
\Box	allogamy
\Box	fertilization
\Box	autogamy
	of 100 PU_2015_308
	enhancer element is:-
	an mRNA-degrading enzyme
	a regulatory protein
	an mRNA transcript
\Box	a specific nucleotide sequence in DNA

	of 100 B PU_2015_308 is believed to be a major control point in the regulation of gene expression in
euk	aryotes.
0 0 0	mRNA transport
	Regulation of transcription
	Alternative site splicing
	mRNA degradation
277	of 100 PU_2015_308 hus of mold reported to contain species capable of producing aflatoxins:- Fusarium Brettanomyces Aspergillus
	Geotrichum
272 Tec	of 100 PU_2015_308 Phoic acids are:-
	found in the walls of Gram positive bacteria
	acids which make up the outer wall of Gram negative bacteria
	receptors for phages
	responsible to influence the permeability of the membrane
262	of 100 PU_2015_308 ich of the following is an example of RNA virus? T4 phage Tobacco mosaic virus
	Adeno virus SV 40
286	of 100 5 PU_2015_308 example of gene therapy is:- production of injectable hepatitis B vaccine
\Box	production of vaccines in food crops like potatoes which can be eaten
\Box	production of test tube babies by artificial insemination and implantation of fertilized egg
	the introduction of a gene for adenosine de-aminase in persons suffering from Severe Combined
lmn	nunodeficiency

264 DN/ C	of 100 PU_2015_308 A replicates during:- G1 – phase G2 – phase S – phase M – phase
278 Whi	PU_2015_308 ch of the following refers to the addition of microorganisms to the diet in order to provide health efits beyond basic nutritive value?
F 3	Antibiotics
	Probiotics
F 3	Adjuvants
	Synbiotics
284 Hist	of 100 PU_2015_308 idine, Leucine, and Methionine are examples of:-
	Moderately essential amino acids
	Essential amino acids
	Very essential amino acids
	Non-essential amino acids
100 of 100 276 PU_2015_308 Tikka disease is a major pathogenic threat in:-	
	Wheat
	Apple
\Box	Sorghum
\Box	Groundnut

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144	F 100 PU_2016_308_E shillis is caused by:- Treponema pallidum Streptococcus syphilitic Yersinia psdtis Staphylococcus aureuss
125	F 100 PU_2016_308_E ich of the following diseases is communicable? Cancer Rickets Diabetes Amoebiasis
108	PU_2016_308_E ich of the following is currently considered as the leading cause of extinction? Competition from introduced species Habitat loss Over exploitation of spaces Pollution
183	F 100 PU_2016_308_E virus which does cause hemagglutination of human erythrocytes is:- Rubella Reovirus Enterovirus Myxovirus
165	f 100 PU_2016_308_E class of immunoglobulin present in highest concentration in the blood of a human newborn is:- IgA IgD IgM

0	IgG
146	F 100 PU_2016_308_E t genetically engineered and biotechnologically produced vaccine was against:-
	Herpes simplex
0	AIDS
0	Small pox
0	Hepatitis B
122 'F' p	F 100 PU_2016_308_E lasmids:-
0	carry some chromosomal genes
0	are those plasmids that have never been incorporated into a bacterial chromosome
0	are responsible for high frequency recombination
0	Antibiotic resistance
164 Idio	F 100 PU_2016_308_E typic determinants are located within:-
0	constant regions of light chains
0	the hinge region
0	hypervariable regions of heavy and light chains
0	constant regions of heavy chains
184 An e	F 100 PU_2016_308_E example of an artificial virus is:-
0	Reovirus
0	Mumps virus
	Rabies virus
0	Vaccinia virus
10 of 100 210 PU_2016_308_E A mycorrhizal association is found to occur between:-	
О	fungi and plant roots
0	Mycoplasma and roots
0	bacteria and plant roots

0	viruses and plant roots
148 The	of 100 PU_2016_308_E raw material for citric acid production is:-
0	Vinegar
0	Corn
0	Molasses
0	Starch
110 A lir	of 100 PU_2016_308_E nkage map:-
0	orders genes on a chromosome based on their location with respect to a stained band
0	shows the actual ordering and spacing of genes on a chromosome
0	orders genes on a chromosome based on recombination frequencies
0	can only be constructed for sex chromosomes
149	of 100 PU_2016_308_E ner of microbiology is:-
0	Louis Pasteur
0	A.V. Leeuwenhock
0	Lister
	Robert Koch
189 If th	of 100 PU_2016_308_E e position one of the functional group is changed from one carbon to the other in the same molecule an enzyme, the enzyme is called:-
0	Epimerase
0	Mutase
0	Transferase
0	Isomerase
15 of 100 143 PU_2016_308_E Nitrites are oxidized to nitrates by a microorganism:-	
0	Nitrobacter
0	Azatobacter

0	Nitrosomonas
0	Nitrosococcus
109	PU_2016_308_E molar basis if DNA has 20% cytosine, then % of adenine would be:- 40% 30%
0	20% 60%
126	PU_2016_308_E 8 vaccine is useful against:- Diptheria Typhoid Pertussis Polio
208	PU_2016_308_E teria differ from Fungi in that the former:- are eukaryotic contain both DNA and RNA contain cell walls can reproduce sexually
169	PU_2016_308_E y many microliters of 20% SDS are required to bring 1.5 mL of solution to 0.5%? 3.8 μL 385 μL 38.5 μL 380 μL
162	PU_2016_308_E condition in which there is one too many or one too few chromosomes is called:- Polyploidy Monoploidy

0	Polytene
0	Aneuploidy
24.4	of 100
150 Ligh	PU_2016_308_E t gathering capacity of Microscope is called:-
0	Numerical aperture
0	Angular aperture
0	Both of the above
0	Objective distance
124 The	of 100 PU_2016_308_E maximum biodiversity in India occur at:-
0	Eastern Himalayas
0	Western Himalayas
0	Western Ghats
0	North-east Himalayas
206	of 100 PU_2016_308_E teria spores:-
0	allow the bacteria to multiple in adverse condition
0	can be identified with Gram stains
0	are killed by temperature of 120° for 20 minutes
0	are usually formed by Gram-negative bacteria
142 Whi	of 100 PU_2016_308_E ch of the following is a neutral stain?
0	Malachite green
0	Picric acid
0	Neutral red
0	Gmiemsa
141 The	of 100 PU_2016_308_E dengue fever virus is:-
0	Orthomyxo virus
0	Entero virus

0	Arbo virus
0	Echo virus
105 Rhi	of 100 5 PU_2016_308_E zofiltration is used to:-
0	Reduce pesticide accumulation
0	Reduce contamination of natural wetland
0	Reduce mobility of contaminated soil
0	Prevent leaching contaminants from the disposal site
207	of 100 PU_2016_308_E e following substances are not used in Gram staining:- congo red iodine alcohol crystal violet
104	of 100 PU_2016_308_E augmemtation involves:- Use insects for bioremediation Use of genetically modified DNA for bioremediation Use of compost for bioremediation Use of microbes for bioremediation
	of 100 2 PU_2016_308_E
	me bacteria can use CO_2 as the sole carbon source and obtaining energy by oxidation & reduction of rganic substances. These bacteria are classified as:-
0000	Photoautotrophs Chemolithotrophs Photoheterotrophs Chemoheterotrophs
185	of 100 5 PU_2016_308_E .1g % solution is μg/μl.

0	10
0	0.01
0	1.0
0	0.1
188	PU_2016_308_E Ich of the following does <i>not</i> participate in the formation of antigen-antibody complexes? Van der Waals forces Hydrophobic bonds Hydrogen bonds Covalent bonds
168 If th	of 100 PU_2016_308_E e genetic code consisted of four bases per codon rather than three, the maximum number of unique no acids that could be encoded would be:-
0	16
0	256
0	64
	128
201	of 100 PU_2016_308_E ich of the following is a form of sexual reproduction?
0	Hermaphroditism
0	Budding
0	Regeneration
	Fission
130 Who	of 100 PU_2016_308_E o provide the evidence that bacteriophage nucleic acid but not protein enters the host cell during ction?
0	Hershey & Chase in 1952.
	Hershey & Macleod in 1952
0	Hershey & Lederberg in 1951.
0	Hershev &Tatum in 1951.

	PU_2016_308_E ch is the chief nitrogenous waste in humans?
0	Urea
0	Ammonia
0	Ammonium nitrate
0	Uric acid
103 Hold	of 100 PU_2016_308_E ogenome theory states:-
0	Host independent evolution
0	Host-symbiont co-evolution
0	Evolution of bacteria
0	Symbiont independent evolution
163	of 100 PU_2016_308_E atitis B is not transmitted by:-
0	Blood transfusion
0	Sexual contact
0	Feco-oral route
0	Congenital transmission
204	of 100 PU_2016_308_E atitis B:-
0	is a RNA virus
0	is a bacterium
0	is a DNA virus
0	is a viroid
106	PU_2016_308_E ch of the following is not a vector used in gene therapy? HIV
Ö	AAV
0	Herpes
	Retro virus

40 of 100

	PU_2016_308_E ch of the following enzyme of TCA cycle is also a part of Electron Transport chain?
0	Succinate Dehydrogenase
0	Pyruvate Dehydrogenase
0	Glutamate Dehhydrogenase
0	Malate Dehydrogenase
170 In w	of 100 PU_2016_308_E hich of the following systems is the entropy the greatest?
0	Water vapour
0	Ice
0	Liquid water at pH 7.0, 37°C
0	Water with sufficient acid added to lower the pH to 2.0
167 Her	of 100 PU_2016_308_E nolytic disease of the newborn caused by Rh blood group incompatibility requires maternal antibody to er the fetal bloodstream. Therefore, the mediator of this disease is:-
0	IgM antibody
0	IgE antibody
0	IgA antibody
0	IgG antibody
186 To v	of 100 PU_2016_308_E which of the following organelles co-translational transport of proteins takes place?
0	Mitochondria
0	Endoplasimc Reticulum
0	Nucleus
	Lysosome
166 The	of 100 PU_2016_308_E main advantage of passive immunization over active immunization is that:-
0	antibody persists for a longer period
0	it provides antibody more rapidly
0	it contains primarily IgM
0	it can be administered orally

	of 100 PU_2016_308_E
Hen	nophilus needs:-
0	LPS
0	X and V factor
0	V factor
0	X factor
147 Pen	of 100 PU_2016_308_E icilin is commercially produced by:-
0	P.notatum
0	P.citrinum P.citrinum
0	P.chrysogenum
0	P.roquefortii
203 To 6 C C 48 6 145	of 100 PU_2016_308_E digest cellulose in its environment, a microorganism produces a/an Endoenzyme Catalase Exoenzyme Polymerase of 100 PU_2016_308_E ck test is used for the detection of:- Cholera
0	Typhoid
0	T.B.
0	Diphtheria
100 Mar	of 100 PU_2016_308_E ngroves are highly productive eco system but they are poor in bird diversity because:-
0	Lack of breeding place
0	Lack of food diversity
0	More number of predators that feed on birds
0	Lack of structural diversity

107 An I	of 100 PU_2016_308_E Hfr strain of <i>E. col</i> contains:-
0	A bacterial chromosomes with a human gene inserted
0	A vector of yeast or bacterial origin which is used to make many copies of particular DNA sequence
0	Human chromosome with a transposable element inserted
0	Bacterial chromosomes with a F factor inserted
129 The	of 100 PU_2016_308_E mitochondria of eukaryotic cells most likely arose as a result of endosymbiosis between a eukaryotic and a:-
0	Red algae
0	Non- sulphur purple bacterium
0	Cyanobacterium
0	Blue- green alga
161	of 100 PU_2016_308_E reaction of soluble antigen with antibody is known as:-
0	Flocculation
0	Precipitation
0	Complement fixation
0	Agglutination
121	of 100 PU_2016_308_E A viruses are more complex to treat because:-
0	Lack of restriction endonucleases
0	Lack of ATP-dependent activity of RecA
0	Lack of proof reading activity
0	Environmental niche
205 Whi	of 100 PU_2016_308_E ich of the following is false about <i>Pseudomonas aeruginosa</i> ?
0	It is sensitive to chloramphenicol
0	It can cause osteomyelitis
0	It is the most common cause of contact lens acquired infection
0	It is a Gram negative bacterium

182 Whi	of 100 PU_2016_308_E ch of the following is not pathogenic mycobacterium?
0	M cheoleni
0	M scrofulaceum
0	M kansasii
0	M smegmatis
128 A ta	of 100 PU_2016_308_E xon is:-
0	Herbal taxonomist
О	A group of related families
0	New taxonomist
0	Modern taxonomist
123 A m	of 100 PU_2016_308_E icrobiologist analysed the DNA of <i>E. coli</i> before and after conjugation. She found that:-
0	Both cells gained genes but lost none of their original genes
0	One cell lost genes and the other gained genes
0	Both cells lost some genes and gained others
0	One cell gain genes and the genes of the other were unchanged
101	of 100 PU_2016_308_E Iusive fitness" theory was originally put forward by:-
~	Hamilton
О 6	Darwin
0	JBS Haldane
O	RA Fisher
127	of 100 PU_2016_308_E niasis by <i>Taeniasaginata</i> is caused by consumption of:-
0	Wild boars
0	Beef
0	Pork
0	Salmon

60 of 100 209 PU_2016_308_E Stains useful for identifying fungus include:-		
0	Gram stain	
0	Giemsa	
0	Methylene blue	
0	Cotton blue	
243 Nitro	of 100 PU_2016_308_M ogen is required by microorganisms for the production of which type of compounds?	
0	Phospholipids	
0	Cellulose	
0	Nucleotides	
0	Fatty acids	
229	PU_2016_308_M e principal function of complement is to:- cross link allergens	
0	bind antibodies attached to cell surfaces and to lyse these cells	
0	inactivate perforins	
0	phagocytize antigens	
227 A cu	of 100 PU_2016_308_M ulture of an E.coli strain that is lysogenic for phage lambda is grown at 32°C. Induction of the phage from the host chromosome will occur when the culture is exposed to:-	
0	Wild type E.coli culture	
0	40°C	
0	Infra-red radiation	
0	Ultra-violet radiation	
223	PU_2016_308_M nature of bacterial capsules:-	
0	Causes widespread blood clotting	
0	Has no effect on the virulence of the bacteria	
0	Allows phagocytes to readily engulf these bacteria	

0	Affects the virulence of these bacteria
247 The	of 100 PU_2016_308_M experiments using <i>Diplococcus</i> to study bacterial transformation were performed by:-
0	Joshua Lederberg
0	Beadle and Tatum
0	Griffith
0	Iwanowsky
224	of 100 PU_2016_308_M terial cell wall is made-up of:-
0	A. N-Acetyl glucosamine
0	B. N-Acetyl muramic acid
0	C. N-Acetyl glucosamine, N-Acetyl muramic acid and amino acids
0	D. Both A and B
244	of 100 PU_2016_308_M at is not a role of hydrogen within cells?
0	It is a major element in all organic compounds
0	It determines the shape and stability of proteins by forming disulfide bonds.
0	It maintains pH within the cell.
0	It forms hydrogen bonds between molecules.
242	of 100 PU_2016_308_M gi are identified by which of the following characteristics?
0	rRNA sequences
0	Biochemical analysis
0	Serological analysis
0	Asexual spore forming structures and spores
228	of 100 PU_2016_308_M at is "ALZHEIMER'S" disease?
0	It is a disorder of the brain
0	It affects liver
0	It affects human immune system

0	It affects Kidney
230 Is n	of 100 PU_2016_308_M ot an AB type toxin:-
0	shiga toxin
0	S.aureus α toxin
0	cholera toxin
0	botulinum toxin
245 Wh	of 100 FPU_2016_308_M at nutritional category of microorganisms plays an important part in recycling inorganic nutrients?
0	Chemoheterotrophs
0	Chemoautotrophs
0	Photoautotrophs
0	Saprobes
225	of 100 PU_2016_308_M ich of the following bacteria cannot fix atmospheric nitrogen non-symbiotically? Rhizobium Klebsiella Azotobacter Pseudomonas
221 In a	of 100 PU_2016_308_M Iflowering plants megaspore undergoes mitosis and develops into a:-
0	Anther
0	Seed
0	Embryo sac
0	Petal
220	of 100 PU_2016_308_M ich is the only colourless animal parasite among dinoflagellates? Notiluca
0	Blastodium
0	Gonyaulux

0	Ceraium	
222 Wh	of 100 PU_2016_308_M en pathogenic bacterial cells lose the ability to make adhesion, they:-	
0	Absorb endotoxin	
0	Increase in virulence	
0	Produce endotoxin	
0	Become avirulent	
241 Wh	of 100 PU_2016_308_M y are encapsulated bacteria generally more pathogenic than non-encapsulated strains?	
0	Because the capsule helps prevent phagocyte attachment to the organism	
0	Because the capsule stimulates a potent immune response in the host	
0	Because phagocytes do not recognize a capsule as foreign	
0	Because the capsule causes the phagocyte to mutate	
77 of 100 226 PU_2016_308_M Which of the following coenzymes act as an "electronic sink"?		
0	TPP	
0	FAD	
0	NAD^{+}	
0	PLP	
246	of 100 PU_2016_308_M at form of Oxygen is not toxic to microorganisms?	
0	O_2	
0	$^{1}O_{2}$	
0	OH.	
0	O_2^-	
248	of 100 PU_2016_308_M isease that can be transmitted by an infectious agent from one individual to another is called: Coma	
0	Epidemic	
0	Pandemic	

0	Communicable		
249 The	of 100 PU_2016_308_M proteinaceous compounds are converted to ammonia by:-		
0	Ammonification bacteria		
0	Denitrification bacteria		
0	Nitrification bacteria		
0	Putrifying bacteria		
296	of 100 5 PU_2016_308_D 6 ong the following which would lead into new species formation?		
0	Niche specialization		
0	Increased resources		
0	Niche overlapping tolerance		
0	Lack of competition		
294 Cho	of 100 PU_2016_308_D pose the correct sequence of evolutionary events in one form of allopatric speciation, using the codes en below:-		
I. Geographical isolation II. Ecological isolation III. Increased pre- mating reproductive isolation IV. Increased genetic divergence V. Selection completed.			
Cod	Codes		
0	III II IV V		
0	III IV II V		
0	I IV III V		
0	I II III V		
295 Pla	of 100 5 PU_2016_308_D nts die in winter by frost because:-		
0	Of desiccation and mechanical damage to tissues		
0	No photosynthesis takes place at such low temperatures		
0	There is no transpiration		
0	Respiration ceases at such low temperatures		

84 of 100 276 PU_2016_308_D Whose invention permitted microbiologists to visually identify microbes?		
0	Louis Pasteur	
	John Snow	
0	John Tyndall	
0	Anton van Leeuwenhoek	
291 Men	PU_2016_308_D nber of the same species which are capable of interbreeding is best describe as:-	
0	Eco system	
0	Biosphere	
0	Community	
0	Population	
273	of 100 PU_2016_308_D rong reducing agent readily electron and undergoes	
0	Accepts, oxidation	
0	Accepts, reduction	
0	Donates, oxidation	
0	Donates, reduction	
299	PU_2016_308_D sider the following statement.	
II. K III. (eciprocal altruism health or sacrifice repaid later in selection present when self-sacrifice relatives lead to altruism Courtship ritual minimizes agonistic behaviour before mating Cognition is the ability to store, process and use sensory information	
Whi	ch of the above statement are correct regarding animal behaviour?	
Cod	es	
0	II, III, and IV	
0	I, II, and III	
0	I, II, III, and IV	
0	I, III, and IV	
	of 100 PU_2016_308_D	

Acellular, non-living agents consisting of a protein coat that surrounds a nucleic acid core a	
0	Viruses
000	Bacteria
	Viroids
	Amoebae
275 All (of 100 PU_2016_308_D of the following are true with regard to fungi EXCEPT:-
0	Yeasts, moulds and mushrooms are examples of fungi
0	They are eukaryotes
0	Some are single-celled and others are multicellular
0	Most are photosynthetic and derive their energy from sunlight
298 Altr	of 100 PU_2016_308_D uistic behaviour is not seen in:-
0	Termite
0	Silk Worm
0	Ant
0	Bee
292	of 100 PU_2016_308_D ich of the following would cause deviation from the Hardy - Weinberg equilibrium?
0	Lack of selection pressure
0	Small population
0	Random mating
0	Isolation
92 of 100 271 PU_2016_308_D In ion exchange chromatography with anion exchanger, the protein with negative charge:-	
0	will be eluted only after applying gradient elution
0	will be eluted first
0	will be eluted in washing step
0	will not bind to the ion exchange resin
	of 100 PU_2016_308_D

If 16% of the persons in a population show a recessive trait, what is the allelic frequency for the dominant allele?
° 16%
© _{84%}
° 96%
C 4%
94 of 100 277 PU_2016_308_D Proteinacious agents that cause a number of neurodegenerative diseases such as Creutzfeld-Jacob disease and Mad Cow disease are called: Viroids
Virusoids
Bacteria
6
Prions
95 of 100 270 PU_2016_308_D The advantage of the Edman's reagent (phenyl isothiocyanate-PTH) over Sanger's reagent (fluorodinotrobenzene-FDNB) in peptide analysis is:-
that the process can be repeated on the remaining peptide
complete denaturation
complete hydrolysis
complete oxidation of all disulfides
96 of 100 279 PU_2016_308_D Which of these is not a living fossil?
Archaeopteryx
C Lung fish
Duck-billed platypus
Frog
97 of 100 280 PU_2016_308_D If your microscope has a 10X ocular lens and you are using the 100X objective lens, what is the total magnification?
C 1000
1100
° 10

0	100
274 The enti mol	of 100 PU_2016_308_D pH of blood of a healthy person is maintained at 7.40 ± 0.05 . Assuming that this pH is maintained rely by the bicarbonate buffer (pKa1 and pKa2 of carbonic acid are 6.1 and 10.3 respectively), the ar ratio of [bicarbonate] / [carbonic acid] in the blood is:-
0	10 1
0	20 0.05
272	of 100 PU_2016_308_D rations often occur as a result of base substitutions. The most common cause of base substitutions is:- Meiotic errors Tautomeric shifts Base insertions Base deletions
297 "Ac	of 100 PU_2016_308_D etylsalicylic Acid" is commonly known as:-
0	Salsalate Aspirin
0	Wintergreen
O	Paracetamol

Sr No.	MSc Microbiology
1	Find the missing term in the following series:
	3,15,?,63,99,143?
Alt1	
Alt2	35
Alt3	45
Alt4	56
2	Choose word from the given options which bears the same relationship to the third word, as the first two bears:
	Horse: Jockey: Car:?
Alt1	Mechanic
Alt2	Chauffeur
Alt3	Steering
	Brake
3	Food is to Fad as Religion is to?
	Crucification
Alt2	Notion
Alt3	Superstition
	Mythology
4	Select the lettered pair that has the same relationship as the original pair of words:
	Fond: Doting
Alt1	Solicitous: Concern
Alt2	Verbose: Wordiness
Alt3	Flurry: Blizzard
	Magnificent: Grandiose
5	Which of the following is the same as Emancipate, Free, Release?
Alt1	Liberate
Alt2	Quit
Alt3	Pardon
Alt4	Ignore
6	Spot the defective segment from the following:
Alt1	I met one of the mountaineers
Alt2	that have returned
Alt3	to their base camp
Alt4	the last week
7	Choose the meaning of the idiom/phrase from among the options given:
	To call names
Alt1	to abuse
Alt2	to recall something
Alt3	to count the prisoners
Alt4	to take attendance

	Our tour programme fell because of inclement weather.
	through
Alt2	off
Alt3	out
Alt4	down
9	Choose the option closest in meaning to the given word:
	POIGNANT
Alt1	unbearable
Alt2	maximal
Alt3	pathetic
	sharp
	·
10	Choose the antonymous option you consider the best:
	WANTON
Δlt1	rational
	abstemious
	dearth
	deliberate
Alt4	deliberate
11	Six people K, L, M, N, O and P are sitting around a table as per the following conditions. i. N
11	
	and O are opposite each other
	ii. K is to the right of M
	iii. L and K are opposite each other
	iv. N is to the left of P
	Who is to the left of L ?
Alt1	
Alt2	
Alt3	
Alt4	0
12	Study the following table carefully to answer the questions that follow (15 to 17): Total number of employees
	in different departments in an organisation and (of these) percentage of females and males
	Department Total number of employees Percentage of female employees Percentage of male employees
	IT 840 45 55
	Accounts 220 35 65
	Production 900 23 77
	HR 360 65 35
	Marketing 450 44 56
	Customer Service 540 40 60
	What is the total number of male employees in the IT and Customer Service departments put together?
	, , , , , , , , , , , , , , , , , , ,
Alt1	115
Alt2	
AILZ	700

Alt3	768
Alt4	
AIL4	65
13	Study the following table carefully to answer the questions that follow (15 to 17): Total number of employees in different departments in an organisation and (of these) percentage of females and males Department Total number of employees Percentage of female employees Percentage of male employees IT 840 45 55 Accounts 220 35 65 Production 900 23 77 HR 360 65 35 Marketing 450 44 56 Customer Service 540 40 60 What is the total number of employees in all departments put together?
	3260
	3310
	3140
Alt4	3020
14	Select the alternative that logically follows from the two given statements, but not from one statement alone: All Cats are dogs No dogs are rats
Alt1	All cats are rats
Alt2	Some cats are rats
Alt3	No cat is rat
Alt4	None of the above
	In a certain code language, "When did you come" is written as 'ti na ki ja'. "Will you come again" is written as 'na pa sa ja' and "She will go" is written as 'pa da ra'. How is "again" written in that code language?
Alt1	
Alt2	
Alt3	
Alt4	α
16	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the conclsions follow beyond a reasonable doubt. Mark your answer as Statement: The aspirants should apply through a proper channel for permission Conclusions: (i) Those who apply through proper channel will get permission (ii) Those who do not apply through proper channel will not get permission
Alt1	If only conclusion (i) follows

Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow
17	The average height of 3 children is 115 cms. If the heights of 2 children are 117 cms. And 112 cms.
	Respectively, the height of the third child is
Alt1	112 cms.
Alt2	113 cms.
Alt3	115 cms.
	116 cms.
18	What is the 30% of 40% of 2/5th of 5000?
Alt1	
Alt2	
Alt3	
Alt4	
All4	720
10	There are a persons in a room. Each one is shaking hand with the other. Ultimately there are 66 hand shakes
	There are n persons in a room. Each one is shaking hand with the other. Ultimately there are 66 hand-shakes.
	Then n=
Alt1	
Alt2	
Alt3	
Alt4	33
20	A problem is given to students
	10 students choose option A ;
	6 students choose option B ;
	2 students choose option C;
	Gopal choose option D;
	5 students did not answer.
	which option is correct if the teacher tells that One-Twelth of the class gave the correct answer.
Alt1	В
Alt2	A
Alt3	C
Alt4	D
21	TAB vaccination is a:-
Alt1	Neonatal Immunization
Alt2	Combined Immunization
Alt3	Passive immunization
	Active Immunization
22	Hetrolactic acid bacteria produce:-
	Lactic acid only
	Lactic acid + H2O + CO2
	Lactic acid + CO2
	Lactic acid + alchohol + CO2
,	

23	Which of the following refers to the addition of microorganisms to the diet in order to provide health benefits
	beyond basic nutritive value?
Alt1	Adjuvants
Alt2	Antibiotics
Alt3	Probiotics
Alt4	Prebiotics
24	In the technique of FRET, for the energy transfer which of the following condition needs to be satisfied?
Alt1	Absorption spectrum of the acceptor must overlap with the emission spectrum of the donor
	The energy donor must not be fluorescent
	Absorption spectrum of the acceptor must not overlap with the emission spectrum of the donor
	Activation energy is higher than free energy
7110-7	retivation energy is higher than nee energy
25	Milk favor in cow is caused due to the deficiency of
	Milk fever in cow is caused due to the deficiency of:- Nitrogen
	Phosphorus
	Calcium
Alt4	Sodium
	Almost 95% of compounds are of carbon because it can form:-
	Double bonds
Alt2	Triple bonds
Alt3	Multiple bonds
Alt4	Single bonds
27	An open reading frame is one that has:-
Alt1	No start and stop codon
Alt2	A start & stop codon
	No start but stop codon
Alt4	A start but no stop codon
28	Streptokinase is also termed as:-
	Hyaluronidase
	Fibrionolysin
	Catalase
	Coagulase
AIL4	Соидинис
29	In a diploid organism, what is the maximum number of alleles that can exist in a population for any given gene?
Alt1	2
Alt2	1
Alt3	4
Alt4	Unlimited

30	In a Sephadex gel filtration column, a mixture of albumin, lysozyme and thymidinewas loaded. In what sequence
	these will be eluted from the column:-
Alt1	Albumin > Lysozyme > Thymidine
Alt2	Thymidine > Lysozyme > Albumin
Alt3	Lysozyme > Thymidine > Albumin
Alt4	Thymidine > Albumin > Lysozyme
31	The ions generated in mass spectrometry technique are separated according:-
Alt1	Mass
Alt2	Charge
Alt3	Shape of the molecule
Alt4	Mass: charge ratio
32	A minimal medium contains 0.00015% CaCl2. To prepare 250 ml of the medium should be taken from
	a solution of 1.5mg/ml CaCl2.
	0.25 ml
	0.025 ml
	25 ml
Alt4	2.5 ml
	Mountax reaction is used for detection of:-
Alt1	
Alt2	
	Diphtheria
Alt4	Cholera
2.4	Which of the following is the most improved in tunboid?
	Which of the following is the most immunogenic in typhoid? O antigen
	Vi antigen
	Somatic antigen
	H antigen
Alt	in untigen
35	Which one the following denotes production phase in fermentation:-
	Lag phase
	Trophophase
	Decline phase
	Indiophase
	·
36	Which of the following is a micronutrient?
	Hydrogen C
	Silica
	Carbon
Alt4	Oxygen
37	Malaria is caused by the infection of:-
Alt1	Virus
Alt2	Bacterium

Alt3	Protozoan
Alt4	Fungus
	A delayed hypersensitivity reaction is characterized by:-
	an infiltrate composed of neutrophils
Alt2	an infiltrate composed of helper T cells and macrophages
Alt3	an infiltrate composed of eosinophils
Alt4	edema without a cellular infiltrate
39	Pili, elongated tubular structures composed of pilin, are only found on what type of organisms
Alt1	Spirochetes
Alt2	Gram-negatives
Alt3	Gram-positives
Alt4	Encapsulated organisms
40	Elek's gel diffusion test is used for the detection of:-
	Toxoid
Alt2	Cholera toxin
Alt3	Diphtheria toxin
	Tetani toxin
41	Which Immunoglobulin can cross the placenta?
Alt1	
Alt2	
Alt3	
Alt4	
7.110.1	10'1
42	The following are used for the preservation of virus, except:-
	Ether
	Formaldehyde
	Lyophilization
	Freezing (-20°C-70°C)
Alt	Treezing (20 c 70 c)
/13	Transposons:-
	Can insert into plasmids but not the bacterial chromosome
	Insert into DNA by homologous recombination
	Contain the equivalent of insertion (IS) element
	Cannot be transferred by phage mediated transduction
AIL4	carnot be dansered by pridge mediated dansadenon
11	Where do you dispose the radioisotope solid waste material?
	General trash
	Any available trash
	Oceans
AIT4	Trash specifically assigned for isotope
	The consequent of the consequence is forward forces that
	The acrosome of the sperm is formed from the:-
Alt1	Mitochondria

Δl+2	Lysosome
	Golgi bodies
	Centrosome
All4	Centrosome
16	When a solution containing ds DNA is heated above its Tm, the change observed in uv-visible spectra before and
40	after treatment is called .
Λl+1	Achromic shift
	Hyperchromic shift
	Bathochromic shift
	Hypsochromic shift
Alta	Trypsocitionite stiff.
47	The test used for detection of typhoid fever:-
	WIDAL test
	Western blotting
	ELISA .
	Rosewaller test
All4	NOSEWAIIEI LEST
/18	The minor histocompatibility antigens on cells:-
	are controlled by several genes in the major histocompatibility complex
	induce reactions that can cumulatively lead to a strong rejection response
	are unimportant in human transplantation
	are detected by reaction with antibodies and complement
Alta	are detected by reaction with untibodies and complement
49	Hypersensitivity to penicillin and hypersensitivity to poison oak are both:-
	initiated by Th-2 cells
	mediated by IgE antibody
	initiated by haptens
	mediated by IgG and IgM antibody
50	During Mitosis suddenly the chromosomes starts moving toward the opposite polesduring:-
	Anaphase
Alt2	Prophase
Alt3	Metaphase
Alt4	Telophase
51	The order of stains in Gram-staining procedure is:-
Alt1	lodine solution, Crystal Violet, Saffranine, Alcohol
Alt2	Alcohol, Iodine solution, Saffranine, Crystal Violet
Alt3	Alcohol, Crystal Violet, Iodine solution,Saffranine
Alt4	Crystal violet, Iodine solution, Alcohol, Saffranine
52	Citrus canker is caused by:-
Alt1	Phytomonas
Alt2	Hay bacillus
Alt3	Lactobacillus
Alt4	Salmonella

	Which of the following is not associated with cell cycle?
	Myosins
Alt2	
	DNA polymerases
Alt4	Cyclins
54	The pH of a solution is 3.75. What is the concentration of hydrogen ion in the solution?
Alt1	1.8 X 10 -4 M
Alt2	1.8 X 10 -3 M
Alt3	1.8 X 10 -2 M
Alt4	18 X 10 -4 M
55	E. coli O157: H7 is thought to have acquired enterohaemorrhagic genes from:-
	Shigella
	Clostridium
	Campylobacter
	Bacillus
7.110-7	
56	Which one of the following substances is NOT released by activated helper T cells?
	gamma interferon
	interleukin-2
	interleukin-4
	interleukin-1
57	E-test is employed for testing of
	Probiotics
	Antigen
	Antibiotics
	Antibody
58	Halophiles can survive in:-
	high-temperature environment
	salt-rich environment
	acidic environment
	Freshwate
59	Proteins show maximum absorbance at 280 nm due to the presence of:-
	Sulphur containing amino acids
	Hydroxyl group containing amino acids
	Aromatic amino acids
	Charged amino acids
	Kuru disease in Humans is caused by:-
	Mycoplasma
	Bacteria
Λ I+ 2	Viroides
	Prions

61	Sites where mutations occur at rates higher than normal are known as:-
Alt1	Hotspots
Alt2	Mutator sites
Alt3	Suppressor sites
Alt4	Cistrons
62	Agar is obtained form:-
Alt1	Blue-green algae
Alt2	Green algae
Alt3	Red algae
Alt4	Brown algae
63	The acid fast stain is used to identify organisms containing what chemical in their cell walls?
Alt1	Mycolic acid
Alt2	Lipoteichoic acids
Alt3	Liposaccharides
Alt4	Porin proteins
	Which of the following is an example of a monosaccharide?
Alt1	Cellulose
Alt2	Chitin
Alt3	Glucose
Alt4	Starch
65	Special feature of Retro viruses include:-
Alt1	RNA directed DNA polymerases
Alt2	Reverse transcriptase
Alt3	Both of the above
Alt4	Boils
66	What type of bond best describes the linkage between Acyl Carrier Protein (ACP) and fatty acids in fatty acid
	biosynthesis?
Alt1	Amide
Alt2	Ester
Alt3	Phosphoanhydride
Alt4	Thioester
	Rancidity in spoiled foods is due to:-
Alt1	Toxigenic microbes
Alt2	Lipolytic organisms
Alt3	Proteolytic organisms
Alt4	Saccharolyticmicrobes

	A bank wiston was bad as made and bank in all an existing for many or take A consistent to the state of the s
68	A technician wanted to make antibody specific for mouse IgM. Accordingly he injected arabbit with purified
	mouse IgM and obtained an antiserum that reacted stronglywith mouse IgG. Unfortunately, however antiserum
	was also found to react withother mouse Ig classes. Such result would be obtained if antiserum contained
	antibodiesdirected against:-
	The constant region of heavy chain
Alt2	The light chain of Ig molecule
Alt3	The Fc portion of Ig molecule
Alt4	The variable region of heavy chain
	Which is the reservoir of Neisseria meningitides?
	Domesticated animals
	Human carriers
	Soil
Alt4	Salt water
	Mycorrhiza was first observed by:-
	Frank
	Crick
Alt3	Fisher
Alt4	Funk
71	Which of has following group of gases contribute to the 'Green House Effect'?
Alt1	Carbon tetrafluoride and Nitrous oxide
Alt2	Carbon dioxide and Methane
Alt3	Ammonia and Ozone
	Carbon monoxide and Sulphur dioxide
72	Autoclaving usesto sterilise
	air mixed with steam
	short periods of temperature
	chemicals
	steam and pressure
AIL4	steam and pressure
72	TORT
	DPT vaccine will not be able to protect the person from the infection of:-
	Corynebacteriumdiphtheriae
	Bordetella pertussis
	Salmonella typhi
Alt4	Clostridium tetani
74	Late blight notate is caused by genera:
	Late blight potato is caused by genera:-
	Verticillium
	Phytopthora
	Synchytrium
Alt4	Alternaria
75	RFLP (Restriction Fragment Length Polymorphism) study is a technique for:-
	Transferring genes from unrelated species
AILI	Triansferring genes from uniterated species

	Identifying genetic (DNA) homologies
Alt3	Isolating single gene products
Alt4	Isolating single genes
76	RFLP (Restriction Fragment Length Polymorphism) study is a technique for:-
	Transferring genes from unrelated species
Alt2	Identifying genetic (DNA) homologies
Alt3	Isolating single gene products
Alt4	Isolating single genes
77	SDS PAGE separates proteins by:-
Alt1	size only
Alt2	native charge only
Alt3	size and native charge
Alt4	Zwitter ions
	Gasgangarene bacillus is:-
	Obligate anaerobe
	Obligate aerobe
	Facultative anaerobe
Alt4	Facultative aerobe
	Which animals may suffer from foot and mouth disease?
	Cattle
	Cattle and Sheep
	Cattle and Pigs
AIT4	Cattle, Sheep and pigs
90	Maist heat sterilizes by
	Moist heat sterilizes by:- denaturation of proteins
	causing production of singlet oxygen
	use of chemicals
	causing the formation of thymine dimers
AIL4	causing the formation of tryrillie difficis
81	What is the key test that separates Staphylococcus aureus from other staphylococci?
	Growth on blood agar medium
	Mannose fermentation
	Coagulase test
Alt4	Susceptibility to novobiocin
82	G-protein linked receptors are transmembrane proteins of:-
	Seven-pass
	Single- pass
	Three-pass
	Five-pass
Alt4	Tive pass

	Budding
	Conidium
Alt3	Spore
Alt4	Hyphae
84	Mosquito is not a vector for:-
Alt1	Yellow fever
Alt2	Elephantiasis
Alt3	Dengue
Alt4	Typhoid
85	By definition, an endophytic fungus lives in form in biological association with the living
	plant.
Alt1	megasporangium
Alt2	spore
Alt3	anther
Alt4	mycelial
86	Who discovered the Polio vaccine?
Alt1	Jonas Salk
Alt2	Eli Whitney
Alt3	Louis Pasteur
Alt4	Konrad Zuse
87	Which of the following inhibits bacterial growth but does not kill bacteria?
	Lysozyme
Alt2	bactericidal agent
Alt3	antiseptic agent
Alt4	bacteriostatic agent
88	What compounds do necrotrophs generally produce in order to gain entry into the host organism while
	obtaining their nutrition?
Alt1	Toxins
Alt2	Sclerotia
Alt3	Conidiophore
Alt4	Stroma
89	The type of filter used in the Laminar air flow biological cabinet is:-
Alt1	High Efficiency Physical Air filter
Alt2	High Efficiency Primary Air filter
Alt3	High Efficiency Physiological Air filter
Alt4	High Efficiency Particulate Air filter
90	Which technique can be used for detection of radioactivity?
Alt1	Immuno-precipitation
Alt2	liquid scintillation counting
Alt3	Avidin-streptavidin conjugate

Alt4 Biophotometry	
91 All of the following are true about antibodies, EXCEPT which one?	
Alt1 They fix complement	
Alt2 They occur on the surface of B-lymphocyte	
Alt3 They are molecule with a single, defined amino acid sequence	
Alt4 They are glycoproteins	
92 Tumer inducing plasmids are extensively used in production of:-	
Alt1 Single cell proteins	
Alt2 Avirulent phases	
Alt3 Nitrogen fixing bacteria	
Alt4 Transgenic plants	
•	
93 TH-2 response is generated and maintained by which of the following pair of cytokines?	
Alt1 IL-2 and IL-12	
Alt2 IL-4 and IL10	
Alt3 IFN -γ and TNF-α	
Alt4 IL-12 and IFN -γ	
94 How many chromosomes do bacteria have?	
Alt1 Zero	
Alt2 Two	
Alt3 Three	
Alt4 One	
95 Which is most antigenic?	
Alt1 Exotoxins	
Alt2 Bacteria	
Alt3 Endotoxins	
Alt4 Viruses	
THE THOSES	
96 Which of the following specially design nuclease is used for knocking out specific genes?	
Alt1 I-Crel Homing endonuclease	
Alt2 S1 Nuclease	
Alt3 Ribonuclease H	
Alt4 Flap endonuclease	
Autor in the Citational Case	
97 The potential risk of using genetic engineering were first discussed in depth at the:-	
Alt1 Asilomar conference 1975	
Alt1 Asional Conference 1975 Alt2 Berlin conference 1977	-
Alt3 Athens conference 1976	-
Alt4 New York conference 1974	
With live M TOLK COILIGIGING 12/4	
09 The gape for Green Elugraceant Protein (CED), a commonly used reporter gape, was aloned from:	
98 The gene for Green Fluorescent Protein (GFP), a commonly used reporter gene, was cloned from:-	
Alt1 Vibrio cholera	
Alt2 Equoreavictoria	

Alt3	Sus dometicus
Alt4	Danio rerio
	le de la
	If more than one kind of immunizing agent is included in the vaccine, it is:-
Alt1	Toxoid vaccine
Alt2	Mixed vaccine
Alt3	Cellular vaccine
Alt4	Recombinant vaccine
100	How much of globulin is present in human serum?
Alt1	0.08
Alt2	0.16
Alt3	0.04
Λ I+ <i>1</i>	N 12



Examination: M.Sc. Microbiology	
Section 1 - Section 1	
Question No.1	4.00
	Bookmark
Who discovered Vibrio cholera	
C Koch	
C Pasteur	
○ Virchow ○ Mechnikov	
U IVIECHIIIKOV	
Question No.2	4.00
	Bookmark □
Cyclosporine is an immunosuppressive drug given to avoid transplant rejection which acts	by
O Inhibition of T cells	
C Inhibition of immune system	
© Inhibition of B cells	
C Inhibition of Complement system	
Question No.3	4.00
	Bookmark
Same DNA sequence may code for more than one protein by	
C RNA splitting	
C Alternative Splicing of RNA	
© Gene splitting	
© Gene splicing	
Question No.4	4.00
Quotien Heri	Bookmark □
Long term effects of strep throat can include	_
○ Rheumatic fever	
© Encephalitis	
○ Death	
C Death C Glomerulonephritis	4.00
○ Death	4.00
C Death C Glomerulonephritis	4.00 Bookmark
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion:	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C If only conclusion I follows	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C If only conclusion I follows C If either I or II follows	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C If only conclusion I follows	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C if only conclusion I follows If either I or II follows If only conclusion II follows If only conclusion II follows	
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C if only conclusion I follows If either I or II follows If only conclusion II follows If only conclusion II follows	Bookmark 4.00
Clomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books If only conclusion I follows If either I or II follows If neither I nor II follows If neither I nor II follows Question No.6	Bookmark <u></u>
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books C If only conclusion I follows C If either I or II follows C If either I nor II follows C If neither I nor II follows C If neither I nor II follows	Bookmark 4.00
Cuestion No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books If only conclusion I follows If either I or II follows If neither I nor II follows If neither I nor II follows Chromatography is a physical method that is used to separate and analyse	Bookmark 4.00
Clomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books If only conclusion I follows If either I or II follows If only conclusion II follows If neither I nor II follows If neither I nor II follows Cuestion No.6 Chromatography is a physical method that is used to separate and analyse Simple mixtures	Bookmark 4.00
C Death C Glomerulonephritis Question No.5 Statements: All tools are books, Some books are pens. Conclusion: I. Some tools are pen II. Some pens are books If only conclusion I follows If either I or II follows If only conclusion II follows If neither I nor II follows C If neither I nor II follows C If neither I nor II follows Metals	Bookmark 4.00

Question No.7	4.00
	Bookmark
Which is the lg that first reached the site of infection	
○ lgE	
○ IgA	
C IgM	
○ lgG	
Question No.8	4.00
Question No.o	Bookmark □
The major chemical messenger involved in hypersensitivity is	-
○ Interleukines	
© Histamines	
© Lymphokines	
○ Interferons	
Question No.9	4.00
Which of the fellowing is useful to the state with a large	Bookmark □
Which of the following is useful to stimulate antibody production © Purified Antigen	
C An adjuvant	
C A hapten	
© Antiserum	
Question No.10	4.00
Who developed smallpox vaccine for the first time	Bookmark 🔽
© Tautum	
○ Pasteur	
○ Jenner	
C Koch	
Question No.11	4.00
Question No.11	Bookmark □
Rancidity in spoiled foods is due to	
© Saccharolyticmicrobes	
C Lipolytic organisms	
C Toxigenic microbes	
○ Proteolytic organisms	
Question No.12	4.00
	Bookmark
Which number replaces the question mark?	
5 6 5	
4 13 7 9 10 4 5 7 6	
0 11	
0 9	
© 10	
O 12	

Question No.13	4.00
	Bookmark □
G- protein linked receptors are transmembrane proteins of: Seven	
© Single	
© Five	
O Three	
O Three	
Question No.14	4.00
Which of the following types of chromatography involves the separation of substances in a over a 0.2 mm thick layer of an adsorbent?	Bookmark ☐ mixture
○ Gas liquid	
C Thin layer	
O Paper	de
○ Column	
Question No.15	4.00
Question 110.10	Bookmark
Tumer inducing plasmids are extensively used in production of:-	
Avirulent phases	
C Transgenic plants	
C Single cell proteins	
Nitrogen fixing bacteria	
Question No.16	4.00
	Bookmark □
First DNA glycosylase enzyme discovered is	
Methyl Adenine Glycosylase	
C Thymine DNA glycosylase	
C Uracil DNA glycosylase	
C Adenine DNA glycosylase	
Question No.17	4.00 Bookmark
The transfer of plasmid from one bacteria to a different strain is a best example for	DOORITIATE _
O Homozygous gene transfer	
C Horizontal gene transfer	
○ Vertical gene transfer	
○ Heterozygous gene transfer	
Question No.18	4.00
The branch of science concerned with classification, especially of organisms	Bookmark
© Taxonomy	
© Mycology	
© Ecology	
© Biology	
<u> </u>	

Question No.19	4.00
CDC DACE concentra proteins but	Bookmark □
SDS PAGE separates proteins by: © size and native charge	
© Zwitter ions	
© native charge only	
© size only	
- GIZO GTHY	
Question No.20	4.00
The phase which the cells will need time to synthesise the necessary enzymes for its metal	Bookmark
© Death phase	DOIISIII
O Death phase	
○ Stationary phase	
C Lag phase	
C Log phase	
Question No.21	4.00
	Bookmark □
The tracking dye used in SDS PAGE will be	
O Anionic	
O Cationic	
O Non-ionic	
O Amphipathic	
Question No.22	4.00
	Bookmark □
The name Protozoa comes from the Greek, meaning © First -animal	
O Fungi	
AlgaeSecond-animal	
O Second-animal	
Question No.23	4.00
	Bookmark □
Which antibody is found in tears	
O IgG	
O IgA	
O IgM	
○ lgD	
Question No.24	4.00
	Bookmark
Reproduction in bacteria is carried out by	
© Sexual reproduction	
© Conjugation	
© Binary fission	
○ Budding	

Question No.25	4.00
DNA helicase enzyme involved in base excision repair mechanism is	Bookmark 🗆
© DNA helicase I	
C DNA helicase II	
C DNA helicase IV	
C DNA helicase III	
Question No.26	4.00
Question 110.20	Bookmark □
Which of the following bacteria has the lowest 50% infective dose (ID50)	
Campylobacter jejuni	
C Vibrio cholerae	
Shigella Sonnei	
Salmonella typhi	
Question No.27	4.00
	Bookmark □
The Plasmid used by Cohen and Boyer for their transformation experiment was	
© E. coli plasmids	MA
o pBR 322	
o pSC 101 o PUC 17	
010017	
Question No.28	4.00
	Bookmark □
When is electrophoresis not used?	
Separation of proteinsSeparation of nucleic acids	
Separation of mino acids	
© Separation of Lipids	
Question No.29	4.00
Spectroscopy deals with interaction of electromagnetic radiation with matter. What is the	Bookmark ☐ speed of
this radiation in vacuum in m/s?	
C 5 x 10 ⁸	
C 6 x 10 ⁸	
[©] 3 x 10 ⁸	
C 7 x 10 ⁸	
Question No.30	4.00
Question No.50	Bookmark
The resolving power of an optical microscope is	_
© 0.2 nm	
○ 0.2 μm	
O 0.2 Å	
© 0.2 mm	

Question No.31 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? © 25 © 28 © 35 © 32	4.00 Bookmark ☐ an do the
Who disproved the spontaneous generation by showing that maggots only appear on decitat has been exposed to flies? C Joseph Lister C Louis Pasteur C Robert Koch C Robert Hooke	4.00 Bookmark ☐ caying meat
Question No.33 Since the of the motor car, road accidents have increased dramatically. c inception inauguration initiation advent	4.00 Bookmark □
C Antibody C Antibiotics C Antigen C Probiotics	4.00 Bookmark ☐
Question No.35 A term is used to describe procedures performed outside of the living organism In vitra In vitro In vivo In vivo	4.00 Bookmark ☐
media encourage the growth of an organism present in low numbers. © Enrichment © Transport © Selective © Differential	4.00 Bookmark ☐

Question No.37	4.00
Choose the best antonym of the italicized word.	Bookmark □
There are four chapters that are <i>extraneous</i> to the structure of the book.	
○ integral	
○ important	
○ relevant	
O needful	
Question No.38	4.00
Question No.36	Bookmark
Which technique can be used for detection of radioactivity?	
C Avidin-streptavidin conjugate	
C Liquid scintillation counting	
© Biophotometry	
Immuno-precipitation	
Question No.39	4.00
	Bookmark □
Which of the following cell possess poly morphonucleus	
O B- cells	
O Macrophage	
© Erythrocyte	
© Neutrophilis	
Question No.40	4.00
Change the correct mapping of the italiaized idiam	Bookmark
Choose the correct meaning of the italicized idiom. Those who work by fits and start seldom show good results.	
© Rarely	
© Regularly	
○ Irregularly	
O Disinterestedly	
S Districted edity	
A	
Question No.41	4.00
	Bookmark
All belong to Enteric proteobacteria group except	
O Shigella	
© Staphylococcus	
○ Salmonella	
© E. coli	
Question No.42	4.00
Discours Advantage I	Bookmark 🖂
Rhizopus and Mucor belong to	
C Regidiemy sets	
O Basidiomycota	
Ascomycota Chytridiamycota	
○ Chytridiomycota	

Question No.43	4.00
In chromatography, which of the following can the mobile phase be made of?	Bookmark 🗆
C Liquid or gas	
Solid or liquidLiquid only	
© Gas only	
<u> </u>	
Question No.44	4.00 Bookmark
Which of the following structure is absent in Gram positive bacteria	
O Murein	
C Cell wall Teichoic acid	
O Outer membrane	
Question No.45	4.00 Bookmark
Which of the following is not a type of Spectroscopy?	Dookina K
O X ray	
O Sound	
Nuclear magnetic resonanceGamma ray	
Gamina ray	
Question No.46	4.00 Bookmark □
The major molecule responsible for rejection of transplant is	DOORHAIK [_
O Antibodies	
O B Cells O T Cells	
O MHC Molecule	
Question No.47	4.00 Bookmark
Agar is obtained from:-	DOOKIIIAIK [_
○ Blue-green algae	
○ Green algae	
O Brown algae	
© Red algae	
Question No.48	4.00
RFLP (Restriction Fragment Length Polymorphism) study is a technique for:-	Bookmark
© Isolating single genes	
Solating single gene products	
 Transferring genes from unrelated species 	
C Identifying genetic (DNA) homologies	

Question No.49	4.00 Bookmark □
A B C D (1) (2) (3) (4) 1 C 4 1 C 3 1 C 2	
Autoclaving uses to sterilise air mixed with steam steam and pressure short periods of temperature chemicals	Bookmark
What cannot be a reason for using electrophoresis? Comparing two sets of DNA Organizing DNA by shape of backbone Organizing DNA in order we can see Organizing DNA fragments from largest to smallest	4.00 Bookmark ☐
Question No.52 Antoni van Leeuwenhoek started out on his pioneering microscope work in 1670 1675 1671 1673	4.00 Bookmark □
Question No.53 Microorganisms need molecular oxygen in low concentrate called Facultative anaerobes Aerotolerant anaerobes Microaerophiles Obligate anaerobes	4.00 Bookmark □

Question No.54	4.00
If A+B means A is daughter of B,	Bookmark □
A-B means A is husband of B	
A × B means A is brother of B	
From the statement $P - Q + R \times S$, how is Q related to S?	
© Niece	
© Sister	
O Mother	
© None of these	
O Notic of these	
Question No.55	4.00
	Bookmark □
Study the following information carefully and answer the question below it	
(i) There is a group of five persons- A, B, C, D and E	
(ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human	scarecrow and
one is grave-digger (iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and	d the watchman
prefer coffee to tea	
(iv) The human scarecrow and D and A are friends to one another but two of these pref tea.	er conee to
(v) The manual scavenger is C's brother	
Who is a manual scavenger?	
O A	
o C	
ОВ	
Question No.56	4.00
Question No.50	Bookmark
Anoxygenic photosynthesis found in :	
○ Green plant	
○ Green bacteria	
© Cyanobacteria	
○ Algae	
Question No.57	4.00
Change the missing term : A7 CT MN 2 VP	Bookmark □
Choose the missing term : AZ, GT, MN, ?, YB O TS	
o SX	
o KE	
O SH	
Question No.58	4.00
Which immunoalohulin is the least provalent	Bookmark □
Which immunoglobulin is the least prevalent © IgD	
O IgE	
○ IgA	
© IgG	

These boys need some new books,? or isn't it? or do they? or is it? or don't they? Question No.60 4.00 Bookmark The main product of Embden-Meyerhof pathway is
C do they? C is it? C don't they? Question No.60 4.00 Bookmark
C is it? C don't they? Question No.60 4.00 Bookmark
C don't they? Question No.60 4.00 Bookmark □
Question No.60 4.00 Bookmark
Bookmark <u></u>
The main product of Embden-Meyernor pathway is
O Citrate
© Phosphate
○ Pyruvate
O Nitrate
Question No.61 4.00
Bookmark
He noticed that when lactic acid was produced in wine instead of alcohol, rod-shaped bacteria were always present, as well as the expected yeast cells
© Edward Jenner
C Louis Pasteur
© Robert Kock
C Toshep Lister
Question No.62 4.00
Bookmark ☐ Choose the best antonym of the italicized word.
Many snakes are actually <i>innocuous</i> .
© ferocious
O poisonous
O harmful
○ deadly
Question No.63 4.00
Bookmark □
In recent times, the number of cases of death by poisoning sharply. © increased
C have increased
C had increased
© has increased
Question No.64 4.00 Bookmark □
Process by which antibodies increase activity of phagocytosis of bacteria
Capsules
© Transposons
© Opsonization
© Conjugation

Question No.65	4.00
	Bookmark
A term that describes an organism that feeds on dead and decay inorganic materials.	
O saprophyte	
O phyton	
O phyla	
C saprobe	
Question No.66	4.00
	Bookmark □
If in a certain language, GRASP is coded as BMVNK, which word would be coded as CR	RANE?
© FUDQH	
O HWFSJ	
© BQZMD	
O XMVIZ	
Question No.67	4.00
Question No.07	Bookmark □
unicellular green alga, sexual reproduction only occurs under adverse conditions	
○ Euglena	
○ Laminaria	
© Trypanosoma	
© Chlamydomonas	
Question No.68	4.00
	Bookmark □
The majority of microorganisms are:	
O Thermophiles	
© Mesophiles	
C Psychrophiles	
© Extreme thermophile	
Question No.69	4.00
QUESTIO(1110,05	Bookmark
The microorganisms which must use one or more organic compounds as its source of ca	
© Autotroph	
© Chemotroph	
© Heterotroph	
C Lithotroph	
Question No.70	4.00
Which animals may suffer from foot and mouth disease?	Bookmark 🗆
© Cattle and Pigs	
© Cattle	
Cattle, Sheep and Pigs	
© Cattle and Sheep	
~ Jamo and Jiloop	

Question No.71	4.00
Which of the following is an example of a monosaccharide	Bookmark
© Starch	
© Chitin	
© Cellulose	
© Glucose	
Question No.72	4.00
When a solution containing ds DNA is heated above its Tm, the change observed in uv-visi	Bookmark □
spectra before and after treatment is called	DIE
○ Hyperchromic shift	
○ Bathochromic shift	
C. Umagabrania shift	
C Hypsochromic shift C Achromic shift	
ACHOTHE SHIR	
Question No.73	4.00
December information sives are weather fellowing available	Bookmark
Based on the information given answer the following question. 1. In a family of six persons, there are people from three generations. Each has separate processes the second sec	rofessions
and they like different colours. There are two couples.	
2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.	
Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour.	
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.	
6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes wh	ite colour.
Which of the following is the correct pair of two couples?	
C Shyam-Manisha, Vimal-Sunita	
C Cannot be determined	
○ Tarun-Nyna, Shyam-Sunita	
○ Shyam-Sunita, Vimal-Manisha	
Question No.74	4.00 Bookmark □
The term used to describe reactions that break down large molecules, usually coupled to a	
energy.	
○ Parabolism	
○ Metabolism	
C Catabolism	
C Anabolism	
Question No.75	4.00
	Bookmark
A two digit number is three times the sum of its digits. If 45 is added to it, the digits are revenue number is	ersed. The
number is © 31	
0 27	
C 32	
C 35	

Question No.76	4.00
	Bookmark □
"The micro organism must be capable of being isolated and grown in pure culture" one of	
© Flemming 's postulates	
O Pasteur's postulates	
 Alexander's postulates 	
○ Koch's postulates	
Question No.77	4.00
	Bookmark □
A microscope is an instrument that:	
C Decrease the size of small objects	
 Makes faraway objects look closer 	
 Increase the size of small objects 	
 Makes small objects appear larger 	
Question No.78	4.00
	Bookmark □
Study the following information carefully and answer the question below it:	
Assles Blesses & Observe Bounds Elds Forbor Ossas bound lives by selfing and the	
Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan.	
not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh	
next to Ganesh.	, no von onto
Who among the following sits between Ganesh and Danesh?	
O Charan	
O Ekta	
O Aasha	
O Bhuvnesh	
Question No.79	4.00
	Bookmark □
Coxiella is a member of the	
Acetic acid bacteria	
C Reckettsia	
O Spirilla	
© Pseudomonads	
Question No.80	4.00
Question No.00	Bookmark
An epitope is	
○ a hapten	
ℂ a B-Cell	
○ The antigen determinant site	
© an antibody	
Question No.81	4.00
	Bookmark □
The type of filter used in the Laminar air flow biological cabinet is:-	
C High Efficiency Particulate Air filter	
 High Efficiency Physiological Air filter 	
C High Efficiency Primary Air filter	
C High Efficiency Physical Air filter	

Question No.82	4.00
Statement: "A Car is required on rent"-An Advertisement Assumptions: I. All types of Vehicles are available on Rent II. People will respond to the advertisements C If both I and II are implicit C If neither I nor II is implicit	Bookmark
 ○ If only assumption I is implicit ○ If only assumption II is implicit 	
Question No.83	4.00 Bookmark □
The enzyme photolyase repair the thymine dimer in the DNA by Free radical mechanism Oxidation mechanism Adduct fromation Direct bond breaking	BOOKINGIK [
Question No.84	4.00
Cutaneous the most common infections found in humans, and are caused by Fungi Bacteria	Bookmark
○ Virus	
C Protozoa	
Question No.85 A shift to lower wave number for an absorption in a spectrum corresponds to C A loss of intensity C A shift to higher energy C A shift to lower wavelength C A shift to lower frequency	4.00 Bookmark ☐
Question No.86	4.00 Bookmark
Citrus canker is caused by Phytomonas	
○ Hay bacillus○ Lactobacillus	
© Salmonella	
Question No.87	4.00 Bookmark
Choose the correct meaning of the italicized idiom. You cannot throw dust into my eyes. C Hurt me C Terrify me C Cheat me C Abuse me	Bookmark [

Question No.88	4.00
Who discovered the Polio vaccine?	Bookmark □
© Eli Whitney	
© Jonas Salk	
© Louis Pasteur	
C Konrad Zuse	
C Konrad Zuse	
Question No.89	4.00
	Bookmark ✓
Which of the following is not associated with cell cycle?	
O DNA polymerases	
O Myosins	
C CDK	
© Cyclins	
Question No.90	4.00
	Bookmark □
Multicellular forms such as moulds have long, branched, threadlike filaments called	
© Coenocytic	
© Septum	
Mycellium	
○ Hypha	
Question No.91	4.00 Bookmark
	DOOKIIIAIK [_
Which is the reservoir of Neisseria meningitides	
O Salt water	
O Domesticated animals	
O Human carriers	
O Soil	
Question No.92	4.00
	Bookmark □
Choose the best synonym of the italicized word. The prisoners of war signed the documen	nt under
coercion.	
compulsion	
confusion	
© security	
© supervision	
Question No.93	4.00
	Bookmark
An absorption in an electronic spectrum is recorded at 17000 cm ⁻¹ . What does this correspond?	pond to in
© 59000 nm	
© 5900 nm	
© 590 nm	
© 59 nm	
~ 55 mil	

Question No.94	4.00
Majority of the auto immune disease are	Bookmark □
© Macrophage mediated	
Mast cells mediated	
Antibody mediated	
© Cell Mediated	
Ceil Mediated	
Question No.95	4.00
Most microorganisms grow best around pH	Bookmark □
© 3	
0 7	
O 5.5	
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Question No.96	4.00 Bookmark □
The role of Urea in PAGE separation of DNA is to	BOOKIIIAIN L
C Act as cation	
O Act as anion	
O Helps to denature DNA	
Provide buffer stability to the gel	'
of Freedo Ballet Stability to the go.	
Question No.97	4.00
The phenomenon of production of ethanol by yeast cells under high concentration of glucose than producing biomass by TCA cycle is described as Olivosky's effect Simposn's effect Warburg effect Crabtree effect	Bookmark e rather
Question No.98	4.00
SCID can occur due to the absence of an enzyme Phosphorylase Thymidine deaminase Guanosine deaminase Adenosine deaminase	Bookmark □
Question No.99	4.00
The activity of AP endonuclease is involved in O Double strand break repair	Bookmark
Nucleotide excision repair	Bookmark □
Nucleotide excision repairBase excision repair	BOOKIIIAIK [

Question No.100	4.00
Which of the following is a macronutrient?	Bookmark <u></u> ☐
O Iron	
○ Oxygen	
○ copper	
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