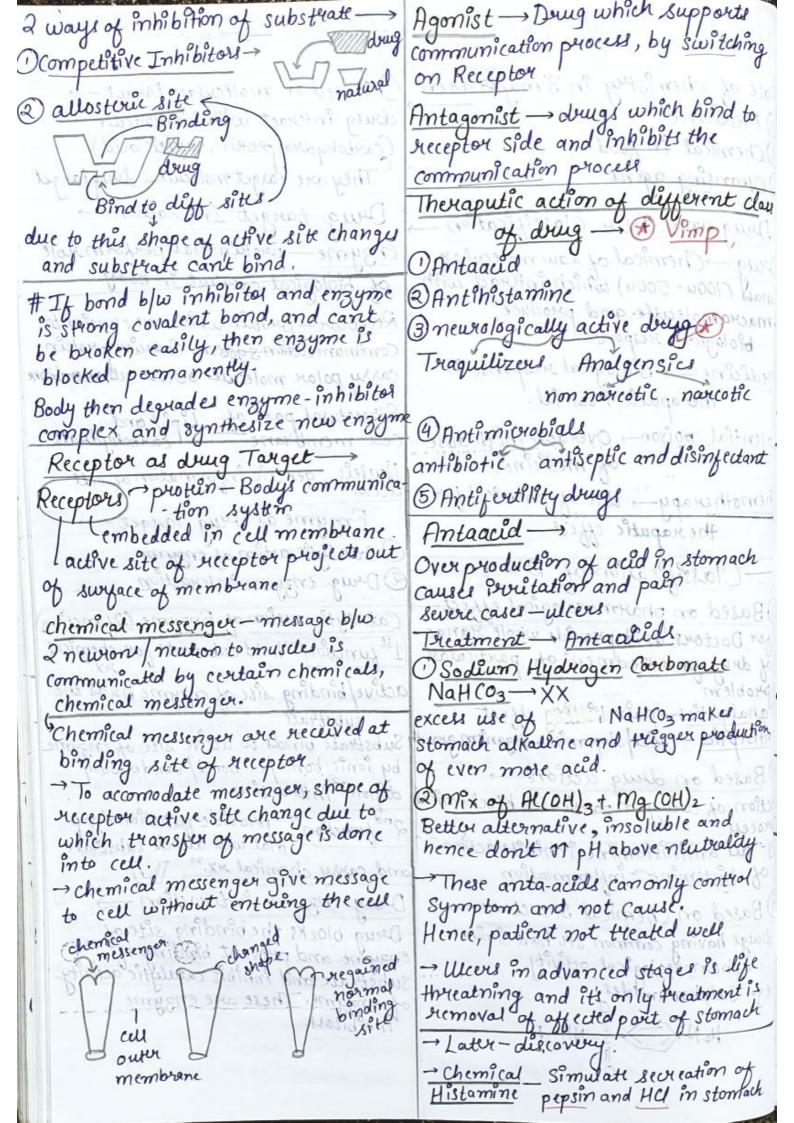
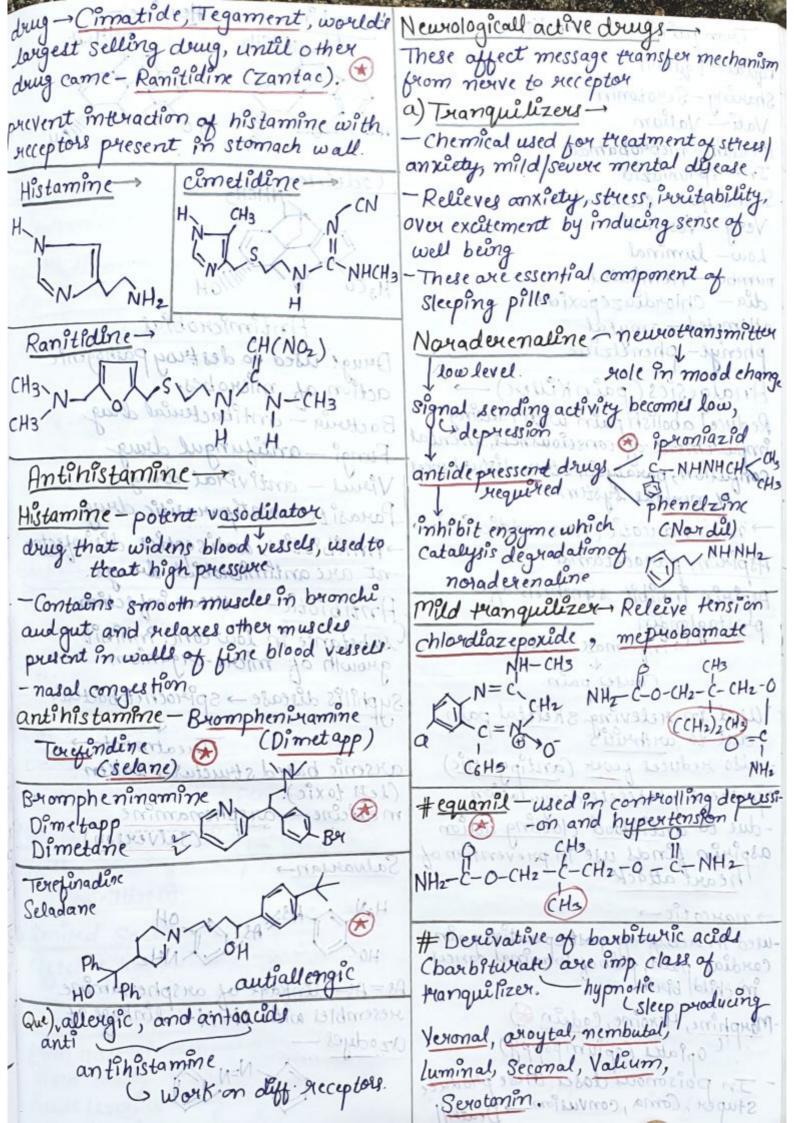
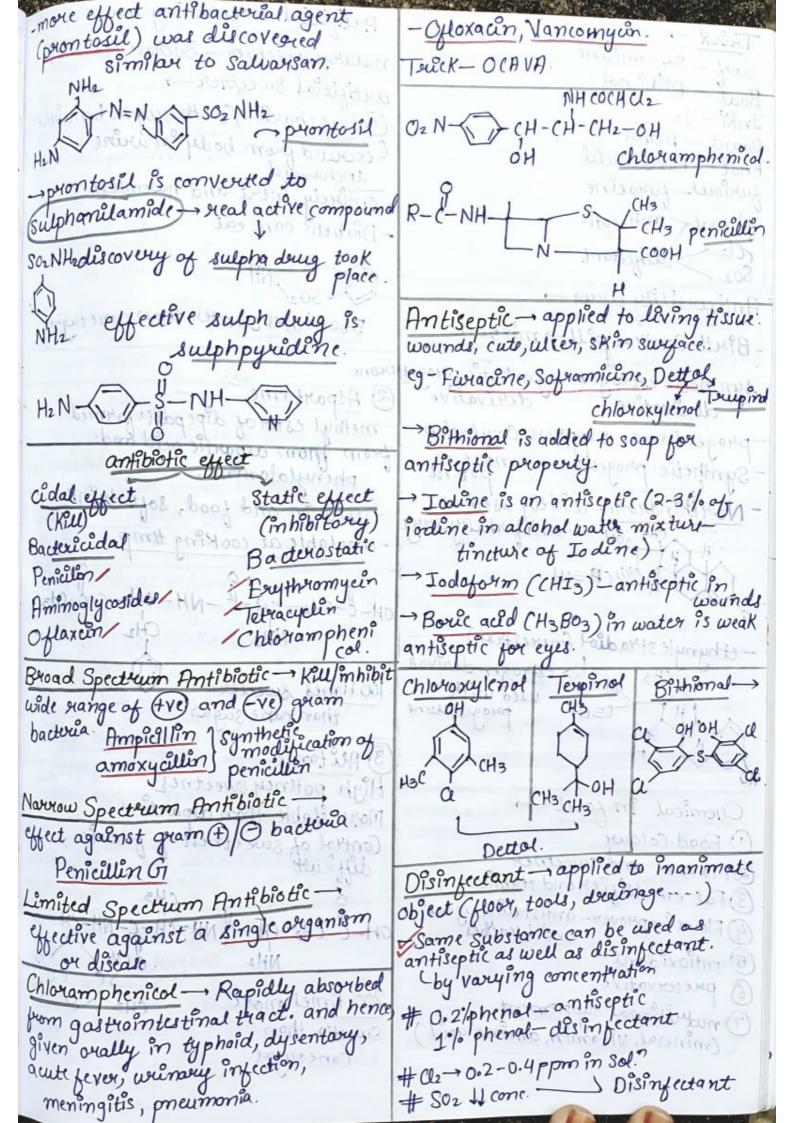
Chemistry in everyday life. Pole of chemistery in 3 major areas 4) Based on molecular target-1 Medicine drug interact with biomolecule achemical in food (carbohydra, protein, nucleic aud) 3 Cleansing agent They are target molecule-drug target Verig target Interaction-Drug and their Classification Enzyme - protein that perform role Drug-Chemical of low molecular mand (1004-5004) which interact with of biological catalyst in body. macromolecule and produce Receptor - protein which are crucial to Communication system. Carrier protein carry polar molecules across cul membrane Mediane - Biological response is theraputie + useful. Structural part of Lipid and carbohydrate. potential poison - Overdose shigh dose Nucleic genetic information of cell. Chemotherapy - Use of chemical for Enzyme as Drug Target the raputic effect - bissolar Ocatalytic action of enzyme Classification of Deng. @ Drug enzyme interaction Based on pharmacological effect— for Doctors, as it provide whole range of drug pass treatment of particular problem Catalytic action of Enzyme (2 functions) 1st function hold substrate for chemical active/binding site of enzyme holds the analgestics-pain Killing effect Substrate binds to active site of enzyme by ionic bond / H-bond / Vandouwall antiseptice - Kill stop micro-organism growth Based on drug action dipole interaction action of dung on particular brochemical 2nd function That will attack substrate eg- all antihistamine inhibits action and carry chemical xx." [] Dung enzyme interaction -Based on Chemical Structure Drug blocks the binding site of pharmacological activity enzyme and prevent binding of Substrate and inhibit catalytic activity of enzyme. These are enzyme inhibitors. eg- Sulphonamides H2N- S-NH-R

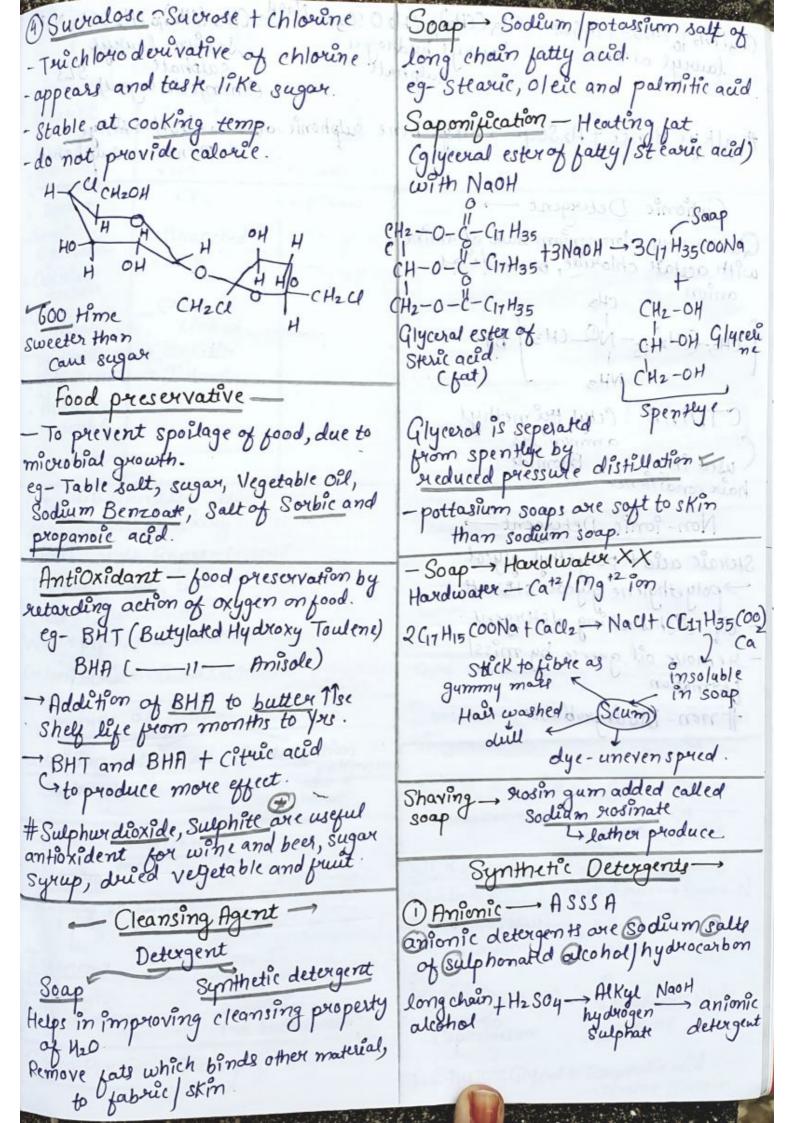




Tranquilizer-Trucksmorphine - Heroine -> NH CH3 -, NHCH3 Equal-Equanil Shaving - Serotonin Vali Valium Madam-meprobamate In- ipromiazid Codeine NHCH3 Second Year-sectional Very - Varonaling Low-luminal number-nembutal strozzo soco dia- Chlordiazepoxidelia attempted - amytal Antimicrobial phenyl-phenelzine Dungs used to destroy pathogenic action of microbes. Hnalgesics (pain Killer) -Reduce abolish pain with causing impairment of consciousness, mental Bacteria - antibacterial drug Fungi - antifungul drug confusion, paralysis, other disturbances Views - antiviral drug of newous system Parasite-antiparasitic drug non-narcotic (non-addictive) -Antibootics, antiseptics, disinfecto-Aspirin, paracetamol (\*) -nt are antimicrobial dungs. Aspirun inhibit synthesis of Antibiotic treat infection prostaglandin substance in low conc. inhibit growth of micro-organism Cause pain Suphilis disease - spirochet bacteria due to arthrutis Treatment -(Dimerape - also reduces jever (antipyretic) arsenic based structures taken - due to antiblood clotting action (Les toxic). medicine arsphenamine (Salveyan) aspirin finds use in prevention of Salvarian → naucotic → -wed in relief of post operative pain, cardiac pain, pain of terminal cancel in child birth. As = As linkage of ansphenamine resembles with N=N- linkage of -Mouphine, Heroine, Codein azodyes -Oplates (opium poppy) - In poisonous doses these produce stuper, Coma, convusion Death



Autificial sweetening agent. Truck-Saaf - Soframiane natural sweetner - Sucrose - Caloric M Baat - Bithional artificial Sweetner-Inki-I2 (1) Saccharin (orthosulpho benzimile Daant - Dettol Cexcreted from body in wine Bhot - Bour acid furious- furacine -entirely mert and harmless. phonol tantiseptic - Diabetic can eat. SO2 disnectant Antifertility drug-550 times sweeter than canes you - Birth Control pill -> mixture synthetic estrogen synthetic progesterone derivative 2 A 2) Aspartame from mom asportic acid and phenylalanine. -progesterone suppress Ovulation - Synthetic progesterone - more potent Northindrone-widely used as CH3 soll antiputility drug - Used in cold food, soft drink. - Unstable at cooking temp. OH-C-CH2-CH-C-NH-CH-C-O-CH3 & ethynylestradiol (nevestral) H CECH used with peroges from 100 times sweeter than can esugar to sprice shi 3) Alitame-High potency sweetnes Chemical in food More stable than aspartine 1) Food Colows Control of sweetness of food is @ Flavour and sweetnes 3) fat emulsifier and stablizer 9 Flows improver-antistaling agent and bleaches. (6) preservative mos primar 200 times more nutruitional supplement (mineral, vitamin, amino acid) sweeter than Canesugas



CH3(CH2)10 (H2OH + H2SO4 -> (H3 (CH2)10 CH2O SO3 H NOOH) (H3 (CH2)10 (H2OSO3 Not lawy) alcohol lawy) hydrogen sodium lawyl sulphate sulphate sulphate SLS (anion/cdeturgent)

# alkyl Bense + H2SOy -> alkyl bene sulphonic acid -> NaOH -> Alkyl Benzene sulphonak.

Cationic Detergent --Quaturary ammonium salt of amine with acetate chloride, bromide as anion

CH3-(CH2) 15-ND-CH3 Brownia

CTMAB Cetyl trumethyl

used in Bromide hair conditioner

Non-ionic Detugent ->
Steraic acidt polyethyl glycol

> polyethylene glycol sterate

- liq. dishwashing detugent

- remove oil, greese, by missl
formation

# non-brodegrabable



