

SABBHAVNA COLLEGE OF MANAGEMENT & TECHNOLOGY VILLAGE JALALDIWAL , RAIKOT , LUDHIANA (PB)

SUBJECT NAME - PHARMACEUTICAL CHEMISTRY SUBJECT CODE – 2002

Theory

1. Introduction to the nomenclature of organic chemical systems with particulars reference to heterocyclic system containing up to 3 rings.
2. The Chemistry of following Pharmaceutical organic compounds, covering chair nomenclature, chemical , structure, uses and the important Physical and Chemical properties (Chemical structure of only those compounds marked with asterisk (*)). The stability and storage conditions and the different type of Pharmaceutical formulations of these drugs and their popular brand names.
 - i. Antiseptics and Disinfectants-Proflavine*, Benzalkonium chloride, cetrimide, ;chloro cresol 8, chloroxylene, Formaldehyde solution, Hexachlorophene, Liquefied phenol, Nitro funantoin. Sulfathiazole, succinyl sulfathiazole, sulfadimethoxine, sulfamethoxy pyrdazine. Sulfa methoxazole, co-trimoxazole, sulfacetamide*.
 - ii. Antitileprotic Drugs-clofazimine, Thiambutosine, Dapson*, solapsone.
 - iii. Anti-tubercular Drugs-Isoniazid*, PAS*, Streptomycin, Rifampicin, Ethambutol*, Thiacetazone, Ethionamide, Cycloserine, Pyrazinamide*.
 - iv. Antiamoebic and /anthelmintic Drugs-Emetine, Metronidazole*, Halogenated hydroxyquinolines, diloxanide furoate, Paromomycin Piperazine*, Mebendazole, D.E.C,*.
 - v. Antibiotics-Benzyl Penicillin*, Phenoxy methyl Penicillin&, Benzathine Penicillin, Ampicillin*, Cloxacillin, Carbenicillin, Gentamycin, Neomycin, Erythromycin, Tetracycline, Cephalexin, Cephaloridine, Cephalothin, Griseofulvin, Chloramphenicol. Antifungal agents-Undecylenic acid, Tolnaftate, Nystatin, Amphotericin, Hamycin.
 - vi. Antimalarial Drugs-Chloroquine*, Amodiaquine, Primaquine, Proguanil, Pyrimethamine*, Quinine, Trimethoprim.
 - vii. Tranquilizers -Chlorpromazine*, Proachlor P erazine, Trifluo, Perazine, Phiothixene, Haloperidol*, Triperidol, Oxypertine, Chlordiazepoxine, Diazepam*, Lorazepam, Meprobamate.
 - viii. Hypnotics:- Phenobarbitone*, Methyprylon, paraldehyde. Triclofos sodium.
 - ix. General Anacsthtics-Halothane*, Cyclopropane*, Diethyl ether*, Methohexital sodium, Thiopental sodium, Trichloro ethylene.
 - x. Antidepressant Drugs-Amitriptyline, Nortriptyline, Imipramine*, Phenejzine, Tranyl cypromine.
 - xi. Analetptics-Theophylline, Caffeine*, Coramine*, Dextro-amphetamine.
 - xii. Adrenergic Drugs-Adrenaline*, Noradrenaline, Isoprenaline*, Phenylephrine, Salbutamol, Terbutaline, Ephedrine*, Pseudo ephedrine.
 - xiii. Adrenergic Antagonist-Tolazoline, Propranolol *, Practalol.
 - xiv. Cholinergic Drugs-Neostigmine*, Pyridostigmine, Pralidoxime, Pilocarpine, Physiostigmine*.
 - xv. Cholinertgic Antagonists-Atropine*, Hyoseine, Homatropine, Propantheline*, Benztropoine, Tropicamide, Biperiden *.
 - xvi. Diuretic Drugs-Furosemide*, Chlorothiazide, Hydrochlorothiazide Benathiazide, Urea*, Manitol*, Ethacrynic Acid.
 - xvii. Cardiovascular Drugs-Ethylnitrite*, Glyceryl trinitrate, Alpha methyl dopa, ;Guanethidine, Clofibrate, Quinidine.

- xviii. Hypoglycemic Agents-Insulin, Chlorpropamide*, Tolbutamide, Glibenclamide, Phenformin*, Metformin.
- xix. Coagulants and Anti Coagulants-Heparin, Thrombin, Menadione*, Bishydroxycoumarin, Warfarin Sodium.
- xx. Local Anaesthetics-Lignocaine*, Procaine*, Benzocaine.
- xxi. Histamine and Anti histaminic Agents-Histamine, Diphenhydramine*. Promethazine, Cyproheptadine, Mepyramine, Pheniramine, Chlorpheniramine*.
- xxii. Non-steroidal anti-inflammatory Agents-Indomethacin*, Phenylbutazone*, Oxyphenbutazone, Ibuprofen.
- xxiii. Thyroid and Antithyroids-Thyroxine*, Methimazole, Methyl thiouracil, Propylthiouracil.
- xxiv. Diagnostic Agents-Iodopanoic Acid, Propyl iodone, Sulfobromophthalalein
- xxv. Sodium, Indigoindisulfonate Sodium (Indigo Carmine), Evans blue, Congo Red, Fluorescein Sodium.
- xxvi. Anticonvulsants, cardiac glycosides, Antiarrhythmic antihypertensives & vitamins.
- xxvii. Steroidal Drugs-Betamethazone, Cortisone, Hydrocortisone, prednisolone, Progesterone, Testosterone, Oestradiol, Nandrolone.
- xxviii. Anti-Neoplastic Drugs-Actinomycins, Azathioprine, Busulfan, Chlorambucil, Cisplatin, cyclophosphamide, Daunorubicin, Hydrochloride, Fluorouracil, Mercaptopurine, Methotrexate, Mytomye.



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