

3.6 Pharmacology II

Theory

1. Cardio Vascular System: Cardiac Glycosides, antiarrhythmics, antihypertensives, coronary dialators, antihyperlipidemic drugs.
2. Diuretics and antidiuretics.
3. Haemopoeitic System: Coagulants, anti-coagulants, haematinics, plasma volume expanders.
4. Drugs acting on uterus, uterine stimulants and relaxants.
5. Gastro Intestinal System: Purgatives, antidiarrhoeals, emetics and antiemetics, carminatives, treatment of peptic ulcer.
6. Respiratory system: Bronchodilators, Mucolytic agents.
7. Autocoids and antihistaminics: Histamine, prostaglandins, leucotrienes, serotonin.
8. Bioassay: Principle and methods for bioassay.

PRACTICALS

1. Drug receptor studies to demonstrate cholinergic and histamine receptors using appropriate isolated preparations.
2. Frog heart perfusion experiments.
3. Bioassay of histamine, acetylcholine and tubocurarine.

Books Recommended:

1. Satoskar & Bhandarker, "Pharmacology and Pharmacotherapeutics".
2. F.S.K. Barar, "Essentials of Pharmacotherapeutics".
3. Alfred Goodman Gilman, Theodore W. Roll, Alan S. Nies, Palmer Taylor, Goodman Gilman's the pharmacological basis of therapeutics".
4. Laurance and Bennett, "Clinical Pharmacology".
5. Crossland, "Lewis Pharmacology".
6. Bowman and Rand, "Textbook of Pharmacology".
7. Kulkarni, "A handbook of experimental Pharmacology".
8. M.N.Ghosh, "Fundamentals of experimental pharmacology".
9. Perry WLME & S. Livingstone Ltd., "Pharmacological experiments on isolated preparations".
10. Seth, Dadka and Kamat, " Selected topics in experimental pharmacology".
11. Burn-Practical Pharmacology.