. PHAR 225 Lab Pharmacology –I Practical

1. Introduction to experimental pharmacology.
2. Preparation of different solutions for experiments.
3. Drug dilution, use of molar and W/V solutions in experimental pharmacology.
4. Common laboratory animals and anesthetics used in animal studies.
5. Commonly used instruments in experimental pharmacology.
6. Some common and standard techniques. Bleeding and intravenous injection, intragastric administration procedure for rendering animal's unconscious, stunning or redents, pithing of frogs, chemical anesthesia.
7. Experiments on intact preparation :
8. Study of different route of administration of drugs in mice/rats.
9. To study the effect of hepatic microsomal enzyme inhibitors and introduction of the Pentobarbitone sleeping time in mice.
10. Evaluation of local anesthetics.
11. To study the effect of autonomic drugs on rabbit eye.
12. To study the effect of various agonists and antagonists and their characterization using isolated preparation like frogs rectus abdominus muscle and isolated ileum preparation of rat, guinea pig

Books Recommended:

1. C.R.Craig and R.E.Stitzel: Modem Pharmacology
2. Theodore W.Rall, Alan S.Nies and Palmer Taylor: Goodman Gilman's : The Pharmacological Basis
of Therapeutics by Alfred Goodman Gilman.
3. D.R.Laurence and P.N.Bennett: Clinical Pharmacology.
4. K.D.Tripathi: Essentials of Medical Pharmacology.
5. R.S.Satoskar and S.D.Bhandarkar: Pharmacology and Pharmacotherapeutics.
6. F.S.K. Barar: Essentials of Pharmacotherapeuties.
7. H.P.Rang and M.M.Dale: Pharmacology.
8. James Crossland: Lewis's Pharmacology, revised.
9. Pharmacological experiments on isolated preparations by Edinburgh University Pharmacology Staff,
1968.
10. Robert A.Turner and Peter Hebbom: Screening methods in Pharmacology, Vol.1 edited
11. S.K.Kulkarni: Handbook of experimental Pharmacology
12. M.N.Ghosh: Fundamentals of experimental pharmacology
13. lan Kitchen: Text book of invitro Pharmacology
14. U.K.Sheth, N.K.Dadkar, Usha G.Kamat: Selected topics in Experimental Pharmacology
7. K. K. Pillai: Experimental Pharmacology, CBS, Delhi.