

PHARMACOLOGY – I

(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What is bioavailability. Explain various pharmacokinetic parameters with graphical representation.
2. Classify anti-cholinergic drugs with suitable examples. Explain the therapeutic uses and adverse effects of atropine
3. Classify adrenergic blockers. Discuss the pharmacological actions and therapeutic uses of beta blockers

Short notes

(14x5=70)

4. Define : • Bioequivalence • Tolerance • Pharmaco vigilance • Orphan drugs
• Inverse agonist
5. Triple responses of histamine.
6. Explain the factors contributing receptor desensitization
7. Explain ion gated receptor activity with suitable diagram
8. Explain therapeutic index and how it has been calculated.
9. Explain food drug interactions
10. State the drugs used in the treatment of glaucoma. Explain the mechanism of action of pilocarpine
11. Pharmacological actions of venous vasodilators
12. Role of beta 1 agonist in asthma
13. What is SERM. Mention its mechanism of action and therapeutic uses
14. Anti diuretic hormone
15. Methods to determine genotoxicity
16. Treatment of alcohol addicts
17. Plasma expanders