

(2012 Scheme)

PHARMACOLOGY - I

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Define bioavailability. Discuss in detail the different factors affecting bioavailability of a drug given through oral route
2. Outline the process of adrenergic neurotransmission and enumerate the drugs which modify the different specific steps in this process.
3. Discuss the pharmacological effects and mechanism of action of digitalis. Outline the management of digitalis toxicity

Short notes

(14x5=70)

4. Explain the terms receptor up /down regulation with suitable examples.
5. Essential drugs and P drug concept
6. What is teratogenicity. Enumerate four teratogenic drugs with the known teratogenic effect of each. Name a safe anti diabetic and anti microbial agent used in pregnancy.
7. Enumerate the clinical uses and adverse effects of atropine.
8. Enumerate the endocrinal and non endocrinal uses of corticosteroid therapy. Name two long acting corticosteroids.
9. Classify oral hypoglycaemic drugs with examples
10. Protein binding of drugs.
11. Drugs used in erectile dysfunction.
12. Mention the Vaughan William classification of antiarrhythmic agents with examples. Mention the ADR of Amiodarone.
13. Outline mechanism of action and adverse effects of oral contraceptives.
14. Explain the different types of receptor antagonism with examples.
15. Advantages and disadvantages of parenteral routes of drug administration.
16. Explain the mechanisms of different types of allergic reactions with suitable examples.
17. The symptoms and line of treatment of organophosphorous poisoning.
