

PHARMACOLOGY – I

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What is a drug receptor. Enumerate the different types of receptors based on their transducer mechanisms. Explain the action - effect sequence of GPCRs.
2. Classify anticholinergic drugs with examples. Discuss the pharmacological actions of atropine.
3. Explain the different factors that modify the effects of a given drug with suitable examples.

Short notes

(14x5=70)

4. Non synthetic reactions in drug biotransformation.
5. Classify antianginal drugs with examples. Add a note on nitrate tolerance
6. Enumerate the different adverse effects of long term corticosteroid therapy.
7. Enumerate the drugs used in bronchial asthma. Mention the extra pulmonary use of beta 2 agonists.
8. Outline the general principles of poisoning treatment.
9. What is myasthenia gravis and explain its diagnosis and management.
10. Quantitative and quantal dose response relationships.
11. What is pharmacogenetics. Explain its clinical significance with four different examples.
12. Mention briefly on insulin analogues. Add a note on insulin lipodystrophy.
13. Indirectly acting sympathomimetics.
14. Define adverse drug reactions. Classify the different types with examples.
15. Advantages and disadvantages of oral route of drug administration.
16. Explain the mechanism of action and adverse effects of statins. Why they are preferably administered at bed time
17. Classify anticholinesterases with examples. Add a note on its mechanism of action and therapeutic uses.
