

Third Year B.Pharm Degree Examinations June 2019

**Pharmacology – I
(2012 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essays

(3x10=30)

1. Explain cholinergic transmission. Describe the receptors of acetylcholine.
2. Explain the pharmacological actions of insulin. Add a note on the preparations of insulin.
3. Classify hypolipidemic drugs with examples. Explain the pharmacology, adverse effects and uses of HMG-CoA reductase inhibitors.

Short notes

(14x5=70)

4. Describe the advantages and disadvantages of intravenous and transdermal routes of drug administration.
5. Drug transporters.
6. Describe the general principles of treatment of poisoning.
7. Apparent volume of distribution. Mention the clinical importance of plasma protein binding.
8. What is biological clock. Explain its significance in chronotherapy.
9. Classify antihistamines giving examples and add a note on second generation antihistaminics.
10. Describe briefly the pharmacotherapy of bronchial asthma.
11. Explain the molecular mechanisms of vasodilators used in the pharmacotherapy of angina pectoris.
12. Classify antithyroid drugs giving examples and explain their mechanisms of action.
13. Various antagonists used in the treatment of heavy metal poisoning.
14. Discuss different types of allergic reactions and explain their mechanism.
15. Explain the signs and symptoms of organophosphorous poisoning and its management.
16. Explain the mechanism of action, adverse effects and uses of ACE inhibitors.
17. Enumerate the factors modifying drug action.
