

Third Year B.Pharm Degree Examinations July 2018**PHARMACOLOGY – I****(2012 Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essays**(3x10=30)**

1. Explain the physicochemical factors affecting drug absorption and bioavailability.
2. Explain the pharmacotherapy of cardiac arrhythmia.
3. Classify anti- adrenergic drugs with examples. Explain the biosynthesis and metabolism of nor adrenaline.

Short notes**(14x5=70)**

4. Describe the structure and mechanisms of G protein coupled receptors.
5. Drug dependence.
6. Define the terms: agonist; spare receptors; prodrug; therapeutic window.
7. Pharmacodynamic drug-drug interactions.
8. List the actions of estrogen.
9. Explain the therapeutic uses and adverse effects of atropine.
10. Explain different types of dose response curves.
11. Classify anti-cholinesterases with examples and mention their therapeutic uses.
12. Explain the structure of ion channel receptors.
13. Drugs used in the treatment of myasthenia gravis.
14. Explain the mechanism and adverse effects of bile acid sequestrants.
15. Explain the signs and symptoms of mercury poisoning and its management.
16. Discuss the mechanism of action and therapeutic applications of calcium channel blockers.
17. Explain the conjugation reactions in drug metabolism.
