

QP CODE:401006

Reg.No:

Final Year B.Pharm Degree Supplementary Examinations – June 2016

**PHARMACEUTICAL CHEMISTRY - V
(Medicinal Chemistry)
(2010 scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw chemical structure wherever necessary.

Essay

(3x10=30)

1. Discuss the basic concepts and applications of pro drug design.
2. What are sedatives and hypnotics. Classify with examples. Discuss the synthesis, mechanism of action and clinical uses of diazepam.
3. How the physiochemical properties, ionization and protein binding influence the drug biological action.

Short notes

(14x5=70)

4. Structure, IUPAC name and uses of trimethoprim
5. Chemical structure and clinical uses of indomethacin & Ibuprofen.
6. Outline the synthesis of phenytoin and mention its uses.
7. Classify diuretics and discuss the SAR of hydrochlorthiazide.
8. Describe the synthesis and clinical uses of pethidine.
9. Cholinergic drugs.
10. H₂ receptor antagonists.
11. Explain the SAR of tricyclic antidepressants.
12. Classify adrenergic blocking agents. Outline the synthesis of propranolol.
13. General anesthetics.
14. Outline the synthesis of lignocaine and mention its uses.
15. Anti tubercular agents.
16. Chemistry of beta lactum antibiotics.
17. Classify antineoplastic agents. Mention the structure and uses of methotrexate and 5-fluoro uracil.
