

Final Year B.Pharm Degree Examinations – June 2016
PHARMACEUTICAL CHEMISTRY – V
(Medicinal Chemistry)
(2012 scheme)

Time: 3 Hours**Total Marks: 100**

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

Essay**(3x10=30)**

1. Enumerate the various physicochemical properties that influence the biological activity. Add a note on isosterism and geometrical isomerism
2. Classify adrenergic agents and adrenergic antagonists. Discuss the chemistry, mechanism of action, synthesis and uses of Salbutamol. Synthesize salbutamol.
3. Elaborate on anti-metabolites with examples. Mention synthesis of any two agents.

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

4. Anti tubercular agents.
5. Synthesize and mention the uses of metronidazole.
6. Loop diuretics and potassium sparing diuretics.
7. List out the applications of quantum mechanics.
8. Explain on intravenous general anaesthetics.
9. Sulphonyl ureas.
10. Chemistry and synthesis of tolnaftate.
11. Antipyretics.
12. List out any 5 important applications of pro drugs with examples.
13. Anti depressants.
14. H₂ receptor antagonists.
15. Antiepileptic agents.
16. Discuss the SAR and uses of Sulphonamides with suitable examples.
17. Explain the chemistry and uses of fluoroquinolones.
