

Final Year B.Pharm Degree Supplementary Examinations - February 2015

PHARMACEUTICAL CHEMISTRY - V
(Medicinal Chemistry)

Time: 3 Hours

Total Marks: 100

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

Essay

(3x10=30)

1. Discuss the chemistry, SAR, mechanism of action and uses of phenothiazine derivatives. Outline the synthesis of chlorpromazine.
2. Classify non steroidal anti-inflammatory agents. Explain the synthesis, mechanism of action and uses of Ibuprofen and piroxicam.
3. Explain the sulphonamides in detail.

Short notes

(14x5=70)

4. Applications of computer aided drug design.
5. Isosterism.
6. Nitrogen mustards.
7. Discuss on the reverse transcriptase inhibitors.
8. Explain the SAR and mechanism of action of flouroquinolones.
9. β -blockers.
10. Mechanism of action and chemistry of sulphonyl ureas and rosiglitazone.
11. Second line anti-tuberculosis agents.
12. Macrolide antibiotics
13. Outline the synthesis of furosemide and triamterene.
14. Anti depressants.
15. What are the applications of pro drugs.
16. Explain on the cholinergic antagonists.
17. Chemistry and synthesis of ampicillin.
