

QP CODE:401006 (old scheme)

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations May 2018
Pharmaceutical Chemistry - V
(Medicinal Chemistry)
(2010 scheme)

Time: 3 Hours

Total Marks: 100

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

Essays

(3x10=30)

1. Explain in detail the physicochemical parameters that effect biological activity.
2. Outline the synthesis of the following drugs - lignocaine and chlorpromazine.
3. Explain in detail molecular modelling.

Short notes

(14x5=70)

4. Structure and mechanism of action of COX₁ and COX₂ inhibitors.
5. Discuss the SAR of the barbiturates.
6. Outline the synthesis of chloroquine.
7. Structure, mechanism of action and uses of calcium channel blockers.
8. Classification and mechanism of action of diuretics
9. What are carrier linked pro drugs. What are the advantages. Give examples.
10. Outline the synthesis of methotrexate.
11. Outline the synthesis of paracetamol.
12. Classify antiviral agents.
13. What is the mechanism of action of sulphonamides. Explain with an example.
14. Give the mechanism of proton pump inhibitors. Give two examples.
15. Discuss the SAR of phenothiazine derivatives.
16. SAR of penicillin
17. Outline the synthesis of ibuprofen.
