

QP CODE: 401006 (old scheme)

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations
December 2017

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 SAR of tetracyclines and sulfa drugs
2. Explain the synthesis of the following drugs:
 - Prochlorperazine • Dapsone • Methyl Dopa • Phenytoin
3. Classify oral hypoglycemic agents with examples. Explain the structure and synthesis of any two hypoglycemic agents.

Short notes

(14x5=70)

4. Explain different types of local anesthetics giving one example with structure for each class.
5. Define sedative and hypnotics. Explain the synthesis of diazepam.
6. Explain the SAR of directly acting sympathomimetics
7. Explain the effect of protein binding and pKa on drug action.
8. Outline the synthesis and uses of tolinaftate
9. Classify antitubercular agents giving one example for each class. Mention the synthesis of any one of them.
10. Explain the mechanism of action of proton pump inhibitors. Discuss the structure of any two of them.
11. Explain the structure and use of the following: • Metronidazole • Ezetimibe
• Paracetamol • Acyclovir
12. Explain the SAR of non-steroidal anti-inflammatory agents
13. Explain the mode of action of the following: • Methotrexate • Chloroquine
14. Application of QSAR in drug discovery
15. Define and classify prodrugs with examples.
16. Chemistry of cephalosporins.
17. Chemistry of chloramphenicol
