

2010 scheme

QP CODE: 401006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations December 2022

Pharmaceutical Chemistry - V (Medicinal Chemistry)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Write chemical structures wherever necessary.*

Essays

(3x10=30)

1. Classify oral hypoglycemic agents with examples. Discuss the mechanism of action of any two different agents. Outline the synthesis of any one
2. Elaborate the concept of computer aided drug design and discuss its importance in drug discovery process
3. Outline the chemical synthesis of indomethacin and dapsone

Short notes

(14x5=70)

4. Explain the importance of ionization and pKa in drug design
5. Outline the applications of quantum mechanics
6. Classify anti-hypertensive agents with atleast one structure from each class
7. Explain the mechanism of action of sulfacetamide and chloramphenicol
8. Write the chemical structures of following drugs-
 - Acetazolamide • hydralazine • isoniazid • chloroquine • sulfapyridine
9. Write the chemical structures of any five antineoplastic agents
10. Summarize the structure activity relationship of cephalosporins
11. Chemistry of penicillins
12. SAR and uses of adrenergic agents
13. Outline the chemical synthesis and mechanism of action of carbachol
14. Chemistry and mechanism of action of macrolide antibiotics
15. Explain the mechanism of action and chemical synthesis of methotrexate
16. Explain the SAR of sulphonamides
17. Outline the chemical synthesis and therapeutic use of ibuprofen
