

2012 scheme

QP CODE:411006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations November 2024

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
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the factors effecting biological activity in relation to physicochemical properties
2. Classify antimalarials with structural examples for each class. Outline the synthesis of any one antimalarial
3. Discuss the role of Quantitative Structure Activity Relationship (QSAR) in drug discovery

Short Notes:

(14x5=70)

4. Explain the mechanism of action and chemical synthesis of methotrexate
5. Explain the SAR of sulphonamides
6. Outline the chemical synthesis and mechanism of action of diazepam
7. Explain the SAR of antipsychotics
8. Discuss the theory of molecular modeling
9. Write the chemical structure of following drugs-
a) Diethyl ether b) Benzocaine c) Oxazepam d) Isoprenaline e) Propranolol
10. Outline the chemical synthesis and therapeutic use of salbutamol
11. Explain the SAR of fluoroquinolones
12. Outline the chemical synthesis and mechanism of action of carbachol
13. Explain the mechanism of action of macrolide antibiotics
14. Explain the mechanism of action of sulfacetamide and chloramphenicol
15. Explain the mechanism of action of tolnaftate and metronidazole
16. Discuss the SAR and uses of Isoprenaline
17. What are proton pump inhibitors. Write their mechanism of action and uses.
