

2010 scheme

QP CODE: 401006

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
- Write chemical structures wherever necessary.

Essays

(3x10=30)

1. Classify antibiotics. Give examples with at least one chemical structure from each class. Discuss the mechanism of action of any four different agents
2. Explain the factors affecting biological activity in relation to physicochemical properties
3. Categorize antimalarials and give an example of each class along with chemical synthesis of any one drug

Short notes

(14x5=70)

4. Explain the SAR of local anaesthetics
5. Outline the chemical synthesis and mechanism of action of diazepam
6. Explain the SAR of antipsychotics
7. Explain the importance of hydrogen bonding and protein binding in drug design
8. Explain computer aided drug design
9. Outline the chemical synthesis and mechanism of action of phenytoin
10. Explain the SAR of cholinergic drugs
11. Classify the non-steroidal anti-inflammatory agents with chemical structures
12. Give the chemical structures of any five diuretics
13. Explain the SAR of oral hypoglycemic agents
14. Explain the mechanism of action of tolnaftate and metronidazole
15. Write the chemical structures of following drugs-
 - Diethyl ether
 - Morphine
 - Oxazepam
 - Isoprenaline
 - Propranolol
16. Discuss the mechanism of action and chemical synthesis of acyclovir
17. Explain the mechanism of action and therapeutic use of 5-fluorouracil
