

2010 scheme

QP CODE: 401006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations April 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. Discuss the SAR of anticholinergic drugs. Classify anticholinergic drugs with examples and outline the synthesis of dicyclomine.
2. Classify anticonvulsants with examples. Discuss the mechanism of action and SAR of hydantoins as anticonvulsants and outline the synthesis of phenytoin.
3. What are sympathomimetic drugs. Discuss the SAR of sympathomimetics and outline the synthesis of salbutamol.

Short notes

(14x5=70)

4. Explain isosterism and protein binding in relation to biological action of drugs.
5. Write a note on CADD and how it is useful in drug discovery.
6. Mechanism of action of local anaesthetics and outline the synthesis of dibucaine.
7. What are the general SAR features of H₁ antihistaminics.
8. Explain SAR of thiazide diuretics and outline the synthesis of triamterene.
9. Outline the method of synthesis of metronidazole and INH.
10. Write the SAR of beta-adrenergic blockers and outline the synthesis of propranolol.
11. SAR of sulphonamides. Synthesis of dapsone.
12. Classify antihypertensive agents with examples. Outline the synthesis of methyldopa.
13. Give an account of dihydrofolate reductase inhibitors and antimetabolites giving one example with structure from each class and give their uses.
14. Chemistry and SAR of Morphine.
15. Classify antimalarials with examples. Outline the synthesis of chloroquine.
16. SAR of local anaesthetics.
17. Chemistry of penicillin. Classify them with examples and write structure of any two.
