

2010 scheme

QP CODE:401006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations July 2021
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 mechanism of action of alkylating agents and outline the synthesis of any two anti-neoplastic agents.
2. What are anti-pyretics. Describe the mechanism of action and SAR of morphine analogues.
3. What are β -lactam antibiotics. Give the synthesis of chloramphenicol.

Short notes

(14x5=70)

4. Partition co-efficient in relation to QSAR.
5. Classify anti-tubercular agents. Describe the synthesis of isoniazid.
6. Describe the SAR of anti-fungal agents. Give the synthesis of any one anti-fungal agents.
7. Outline the structure and synthesis of acyclovir.
8. The structural activity relationship (SAR) of benzodiazepines.
9. Classify anti-convulsants. Describe the mechanism of action of hydantoin derivatives.
10. Computer aided drug design (CADD).
11. Define anti-psychotic agents. Outline the synthesis of prochlorperazine and chlorpromazine.
12. H_2 receptor antagonists.
13. What are anti-hyperlipidemic agents. Classify them.
14. Describe the structural activity relationship of tetracyclines.
15. The mechanism, synthesis and uses of pyridostigmine.
16. Define diuretics. Explain the mechanism of action of triamterene.
17. What are non-steroidal anti-inflammatory agents. Classify them with examples.
