

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
December 2021
Medicinal Chemistry - 1
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *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

(2x10=20)

1. Present a short survey on factors influencing solubility and ionization of drug molecules with suitable examples.
2. Discuss in detail the synthesis and medicinal uses of any two adrenergic agonists.

Short Notes

(7x5=35)

3. How optical and geometrical isomerism play a crucial role in drug action. Explain with suitable examples.
4. Discuss the SAR of beta blockers.
5. Outline the pathway for the synthesis of diazepam.
6. Cholinesterase inhibitors.
7. Construct the synthetic route for dicyclomine.
8. Give an account of SAR of phenothiazines as anticonvulsants.
9. Give the chemical structure and uses of • Phenobarbitone • Paraldehyde
• Diclofenac • Pentazocine • Ketamine

Answer Briefly

(10x2=20)

10. Classify anti-inflammatory agents with examples
11. Structure and uses of meperidine
12. Mechanism of action and uses of valproic acid
13. Differentiate narcotic and non-narcotic analgesics with examples.
14. Give the structure and uses of naloxone hydrochloride
15. Factors affecting drug metabolism
16. Mechanism of action of anti-inflammatory agents.
17. Structure and uses of chlorpromazine
18. Bio-isosterism
19. Synthesis of methadone
