

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations June 2022
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. Elaborate the phase I reactions of drug metabolism with suitable examples.
2. Classify anti-inflammatory agents. Write the synthesis and mechanism of action of mefenamic acid.

Short Notes

(7x5=35)

3. Describe about solubility and partition coefficient in relation to biological action.
4. Discuss structural activity relationship of phenothiazines with suitable examples.
5. Write the synthesis, mechanism of action and uses of tolazoline.
6. Cholinesterase inhibitors.
7. Give the synthesis of methohexital sodium and fentanyl citrate.
8. Narcotic antagonists
9. Draw structure and uses of • Terbutaline • Dicyclomine • Thioridazine
• Methsuximide • Ibuprofen

Answer Briefly

(10x2=20)

10. Classify anticonvulsants.
11. Mention any two cholinergic agonists and their structures.
12. Classify antipsychotic drugs.
13. Give the chemical structure and uses of methadone.
14. Suggest any two isosteric replacement for - CH₂ -.
15. Draw any two structures of inhalation anesthetics.
16. Synthesis of phenytoin.
17. Write structure and uses of clonidine.
18. Relate any four cyclo-oxygenase inhibitors.
19. Mechanism of action and uses of primidone.
