

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations November 2025
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. Discuss the chemistry of cholinergic blocking agents and synthesis of Dicyclomine.
2. Explain about the Phase II reactions with examples

Short Notes

(7x5=35)

3. Classify NSAIDs and outline the synthesis of ibuprofen.
4. Write the synthesis and mechanism of action of Mefenamic acid.
5. Give a note on partition coefficient in drug action.
6. Phase – I bio-transformation reaction with examples.
7. Synthesis of any one sympathomimetic agent.
8. SAR of β -adrenergic blockers.
9. List out the five structures of cholinesterase blocking agents.

Answer Briefly

(10x2=20)

10. Explain the relation of hydrogen bonding with biological activity
11. Explain the relation of protein binding with biological activity
12. Chemical structure and uses of ephedrine
13. Chemical structures of clonidine and epinephrine
14. Chemical structure and uses of Haloperidol
15. Synthesis of chlorpromazine hydrochloride
16. Categorize anticonvulsants
17. Chemical structure and uses of phenytoin and carbamazepine
18. Outline the synthesis of halothane
19. Chemical structure and uses of any one ultra-short acting barbiturate
