

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations  
March 2026**

**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. Explain the different physicochemical properties in relation to biological action.
2. What are General anesthetics. Classify them with suitable examples. Explain the mechanism of action and the synthesis of Halothane.

**Short Notes**

**(7x5=35)**

3. Explain with examples phase I biotransformation reaction.
4. Explain the SAR of Beta adrenergic blockers.
5. Explain biosynthesis and catabolism of acetyl choline.
6. Discuss about the SAR of phenothiazines.
7. Write the chemical synthesis and mechanism of action of Phenytoin.
8. Explain the SAR of sympathomimetic agent.
9. Outline the synthesis and uses of Ibuprofen.

**Answer Briefly**

**(10x2=20)**

10. Structure and uses of Fentanyl citrate.
11. Chemistry of Carbachol
12. Write the mechanism of action of barbiturate.
13. Synthesis of Carbamazepine.
14. What is Cholinesterase reactivator.
15. Structure and use of chlordiazepoxide.
16. Write the structure and use of Diazepam.
17. Give two examples for ring analogues of phenothiazines.
18. What are narcotic antagonists.
19. Write the structure and uses of Mefenamic acid.

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