

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
May 2024**

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. What is ionisation and solubility of drugs. Explain their effect on biological activity.
2. What are directly acting sympathomimetic. Give the mechanism of action of such one drug. Write the structure activity relationship features of directly acting sympathomimetic drugs.

Short Notes

(7x5=35)

3. Define and write the biological significance of partition coefficient.
4. Synthesis, mechanism of action and uses of tolazoline.
5. Write note on biosynthesis and metabolism of Acetylcholine
6. Classify cholinergic agents with example. How do you synthesise Neostigmine
7. Write a note on structural features of anticholinergic agents.
8. Give the chemical classification of Sedatives and hypnotics giving examples. Write the mechanism of action of any two classes.
9. Cholinesterase reactivators.

Answer Briefly

(10x2=20)

10. What are the two types of Hydrogen bonding possible in molecules. What is the effect of this on behaviour of the molecules.
11. Classify general anesthetics with examples.
12. Write the structure and mechanism of Procyclidine
13. Write the structure and uses of haloperidol.
14. Name two Narcotic antagonists with its uses
15. Give the structure of Chlordiazepoxide giving its mechanism of action
16. What is the mechanism of action and uses of Dicyclomine.
17. Synthesis of propranolol.
18. Enlist any four important factors effecting metabolism of drugs.
19. Give the structure and uses of Methadone.
