

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations April 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. Discuss in detail the optical and geometrical isomerism in drugs and their influence on biological actions of drug molecules.
2. Discuss in detail cholinesterase inhibitors. Add a note on cholinesterase reactivators.

Short Notes

(7x5=35)

3. List the factors affecting drug metabolism.
4. Discuss the SAR of adrenergic agonists.
5. Outline the synthesis of diazepam.
6. Give an account of structure activity relationship of benzodiazepine class of sedative and hypnotics.
7. Elaborate the synthesis of a drug that falls under hydantoin class which is used as anticonvulsant.
8. Give the structure of the following.
 - Meprobamate • Ethopropazine • Prazosin • Atenolol • Methyldopa
9. Explain in detail the chemistry of any two anti-inflammatory agents

Answer Briefly

(10x2=20)

10. Dissociative anesthetics.
11. Narcotic antagonists
12. Synthesis of halothane
13. Mechanism of action of alpha adrenergic blockers
14. Significance of partition coefficient in medicinal chemistry
15. Give the structure and uses of piroxicam
16. Chemical structure and uses of methadone
17. Draw the structure of • Haloperidol • Alprazolam
18. List out phase I metabolism of drugs
19. SAR of cholinergic drugs
