

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022
Medicinal Chemistry
(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. Define and classify antihistaminics with examples. Discuss the chemistry, synthesis and uses of Diphenhydramine.
2. Classify anti-hyperlipidemic agents. Explain the mechanism of action of lovastatin. Explain the chemistry and uses of quinidine sulphate.

Short Notes

(7x5=35)

3. Define diuretics. Explain the chemistry and mechanism of action of potassium sparing diuretics with suitable examples.
4. Explain the stereochemistry of steroids.
5. Insulin and its preparation.
6. Explain the SAR of alkylating agents.
7. Anti-thyroid drugs.
8. What are local anaesthetics. Outline the synthesis of benzocaine.
9. Chemistry, mechanism of action and uses of mercaptopurine

Answer Briefly

(10x2=20)

10. Write the synthesis and uses of warfarin.
11. Define coagulants with examples.
12. Outline the synthesis of nitroglycerine.
13. Draw the structure of any two corticosteroids
14. Chemistry of male sex hormones.
15. Write the mechanism of action and structure of any one calcium channel blocker.
16. Give the structure and uses of ethacrynic acid and triamterene.
17. Cardio-tonics.
18. What are H₂ antagonists. Give examples.
19. Structure, mechanism of action and uses of minoxidil.
