

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular/Supplementary
Examinations November 2021
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 diuretics and elaborate the classification with examples, mechanism of action of each class, structure and synthesis of any two drugs.
2. Classify antihyperlipidemic agents with one structure from each class. Explain the mechanism of action of any two.

Short Notes

(7x5=35)

3. Mechanism of action of H₂ receptor antagonist. Write the synthesis and use of any one.
4. Chemistry of insulin. Add a note on insulin preparation.
5. Mechanism of action and uses of nitro vasodilators. Write the synthesis of any one.
6. Brief note on thyroid hormones.
7. Mechanism of action and synthesis of methotrexate.
8. Coagulants and anticoagulants.
9. Explain the chemistry of sex hormones.

Answer Briefly

(10x2=20)

10. Brief out on purine antimetabolites.
11. Explain the structure and use of dibucaine.
12. Brief out on first generation H₁ receptor antagonist with examples.
13. Structure and use of any one thiazolidinediones.
14. Structure and mechanism of action of clonidine.
15. Role of dihydropyridines with the structure of any one.
16. Chemistry and uses of nandralone.
17. Outline the synthesis of triprolidine.
18. Chemistry of glucocorticoids.
19. Structure class and use of hydralazine.
