

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular/Supplementary
Examinations July 2024
Medicinal Chemistry II
(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. Classify anti-neoplastic agents with examples. Explain the chemistry, mechanism of action and synthesis of any one antimetabolite.
2. Classify diuretics with examples. Explain the chemistry, mechanism of action and synthesis of any one loop diuretics.

Short Notes

(7x5=35)

3. Chemistry, synthesis and uses of cimetidine.
4. Structure, mechanism of action and uses of chlorpheniramine maleate and ranitidine.
5. Write briefly on drugs used in congestive heart failure.
6. Structure, mechanism of action and uses of procainamide and phenytoin.
7. Write briefly on sex hormones.
8. Structure, mechanism of action and uses of L-Thyroxine and Methimazole.
9. Explain the SAR of local anaesthetics.

Answer Briefly

(10x2=20)

10. Outline the synthesis of triprolidine hydrochloride.
11. Structure of insulin.
12. Structure and uses of verapamil.
13. Outline the synthesis of nitroglycerin.
14. Structure and Mechanism of action of clofibrate.
15. Chemical structure and use of prednisolone.
16. Outline the synthesis of tolbutamide.
17. Therapeutic uses of metformin and piperocaine.
18. Mechanism of action and uses of procaine.
19. Structure of captopril and clonidine hydrochloride.
