

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular/Supplementary
Examinations January 2023
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. Explain briefly on the nomenclature, stereochemistry and metabolism of steroidal hormones.
2. What are local anesthetic agents. Classify them with structures of any two from each class. Explain the structure activity relationship and mechanism of action of local anesthetics.

Short Notes

(7x5=35)

3. The drugs used for erectile dysfunction.
4. Mechanism of action and synthesis of furosemide.
5. Classify antimetabolites used as antineoplastic agents with one structure from each class. Write the synthesis of mercaptopurine.
6. Centrally acting antihypertensive agents.
7. Enumerate the structure, mechanism of action and use of cetirizine.
8. Explain the synthesis of diphenhydramine and promethazine.
9. Explain the chemistry and pharmacological uses of cardiac glycosides.

Answer Briefly

(10x2=20)

10. Classify calcium channel blockers with one structure from each class.
11. Structure and use of omeprazole.
12. Classify antihyperlipidemic agents with examples.
13. Explain antineoplastic antibiotics.
14. Outline the functions of mineralocorticoids.
15. Classify diuretics with examples.
16. Outline the synthesis of chlorthiazide.
17. Explain the synthesis of isosorbide dinitrate and nitroglycerine.
18. Classify antiarrhythmic agents with examples.
19. Outline the structure and use of ethacrynic acid.
