

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular/Supplementary  
Examinations September 2023  
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-diabetic agents with examples. Explain the chemistry, mechanism of action and synthesis of any one drug in the category of sulfonyl urea.
2. Define and classify local anaesthetics with examples. Write the synthesis and mechanism of action of any amino benzoic acid derivative.

**Short Notes**

**(7x5=35)**

3. Structure, mechanism of action and uses of nitroglycerin and isosorbide dinitrate.
4. Classify anti-hypertensive agents. Write the structure and uses of captopril.
5. Structure, mechanism of action and uses of acetazolamide and hydrochlorothiazide.
6. Write briefly on anti-hyperlipidemic agents.
7. Write the chemistry and synthesis of disopyramide phosphate.
8. Short note on insulin and its preparations.
9. Structure, mechanism of action and uses of digoxin and digitoxin.

**Answer Briefly**

**(10x2=20)**

10. Write the structure of omeprazole and chlorambucil.
11. Mechanism of action and uses of cimetidine.
12. Write the chemical structure of L-thyroxine and propylthiouracil.
13. Outline the synthesis of furosemide.
14. Mechanism of action and uses of mannitol
15. Therapeutic uses of dexamethasone and methimazole.
16. Mechanism of action and uses of lovastatin.
17. Structure and Mechanism of action of sildenafil.
18. Outline the synthesis of warfarin.
19. Mechanism of action and uses of cisplatin.

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