

QP CODE: 305326

Reg. No:

**Third Year Pharm D Degree Supplementary Examinations
February 2023**

Medicinal Chemistry

Time: 3 Hours

Total Marks: 70

- *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

(3x10=30)

1. Define and classify diuretics. Write the chemistry and structure activity relationship of thiazide diuretics.
2. Explain how prodrug and combinatorial chemistry is useful in rational drug design. Add a note on QSAR and CADD.
3. Define and classify sulphonamides. Explain the chemistry and SAR of Sulphonamides. Outline the synthesis of any two sulphonamides.

Short notes

(8x5=40)

4. Outline the chemistry and mechanism of actions of Penicillin.
5. Anti-AIDS agents.
6. Outline the synthesis of any two Antimalarials.
7. Write a detailed note on Anti-metabolites used as an antineoplastic agent.
8. Define and classify Anthelmintics. Write the synthesis of Piperazine citrate.
9. Chemistry and mechanism of actions of Biguanides.
10. Coagulants and Anticoagulants.
11. Explain the chemistry and actions of Sex hormones.
