

QP CODE: 305326

Reg. No: .....

**Third Year Pharm D Degree Regular/Supplementary Examinations  
February 2021**

**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. Classify antihypertensive agents. Discuss the mechanism of action of calcium channel blockers and beta blockers with examples. Write the synthesis of propranolol.
2. What are beta lactum antibiotics. Give the degradation products of penicillins. Write a note on beta lactamase inhibitors.
3. Define and classify hypoglycemic agents with examples. Outline the chemistry of insulin and mechanism of action of Sulfonyl ureas.

**Short notes**

**(8x5=40)**

4. Outline the synthesis of • Pamaquine and • Pyrimethamine.
5. Carbonic anhydrase inhibitors and its mechanism of action.
6. Define and classify antiviral agents. Give the mechanism of action of Zidovudine.
7. Explain the chemistry and mechanism of action of anticoagulants.
8. What are anthelmintics. Write the synthesis of Albendazole and Thiabendazole.
9. What are anti tubercular agents. Enlist the problems associated with the treatment.  
  
Write the structure of para amino salicylic acid and INH.

10. Write a short note on Prodrugs

11. Thyroid hormones.

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