

# **2012 scheme**

**QP CODE:411006**

**Reg. No: .....**

## **Final Year B.Pharm Degree Supplementary Examinations June 2022**

### **Pharmaceutical Chemistry - V**

#### **(Medicinal Chemistry)**

**Time: 3 Hours**

**Total Marks: 100**

- 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 sedatives and hypnotics. Write the structural activity relationship of benzodiazepines. Outline the synthesis of diazepam.
2. What are  $\beta$ -lactum antibiotics. Write the classification and structure activity relationship of penicillins. Write the synthesis of ampicillin.
3. Explain the significance of isosterism, optical isomerism and geometrical isomerism in relation to drug's biological action.

**Short Notes:**

**(14x5=70)**

4. Classify general anaesthetics with example and outline the synthesis of thiamylal sodium.
5. Explain about adrenergic agents with suitable examples.
6. Write the structure and uses of the following drugs
  - Tolbutamide
  - Lovastatin
7. Applications of quantum mechanics in drug design.
8. What are anti-hypertensives. Outline the synthesis of methyl dopa.
9. Explain on cephalosporins.
10. Explain structural activity relationship of cholinergic drugs.
11. Outline the synthesis of chloroquine and acyclovir.
12. Classify prodrugs. Write the applications of prodrug design.
13. Write about physicochemical parameters used in QSAR.
14. Define diuretics. Write the mechanism and synthesis of frusemide.
15. Explain hyperglycemia. Classify hypoglycemic agents and outline the synthesis of metformin.
16. Define and classify anti-psychotics. Write the mechanism and structure of chlorpromazine.
17. Explain antifungal agents.

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