

Total No. of Questions - 13] [Total No. of Printed Pages - 2]

DEC-23-0075

BP-402 T (Medicinal Chemistry-I)

B.Pharm-4th (PCI)

Time : 3 Hours

Max. Marks : 75

**Note:** The question paper contains three sections in all, Section A, B and C. In Section A, student has to attempt all questions. From Section B students has to attempt any two questions and from section C students has to attempt any seven questions.

**Section-A**

**Short Answer (Compulsory)**

1. Answer briefly: (10×2=20)
- (a) Define biotransformation reaction.
  - (b) What do you understand by bioisosterism? Give one example.
  - (c) Define sympathomimetic drugs. Give a drug example with structure.
  - (d) Write down the name and structure of any two NSAIDs.
  - (e) Define sedative drugs. Give a drug example with structure.
  - (f) Write down the category, structure and uses of Terbutaline.
  - (g) Write down the category, structure and uses of Pralidoxime hydrochloride.
  - (h) What are parasympathomimetic drugs?
  - (i) Write down the category, structure and uses of Dicyclomine hydrochloride.
  - (j) Write down the name, structure and use of any two narcotic antagonist drugs.

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**SECTION-B**

BP-402 T  
(2×10=20)

**Long Answer (Any Two)**

- 2. Enlist the physicochemical properties affecting the action of drugs. Discuss any two in detail.
- 3. Discuss the classification, mode of action, SAR and uses of barbiturates.
- 4. Classify general anesthetics. Discuss chemistry, mechanism of action and uses of inhalational anesthetics.

**SECTION-C**

(7×5=35)

**Short Note Answer (Any Seven)**

- 5. Write a note on narcotic antagonists.
- 6. Write the synthesis, mode of action and uses of Ibuprofen.
- 7. Discuss the classification and SAR of benzodiazepines.
- 8. Give chemistry, mode of action and SAR of hydantoin.
- 9. Write the SAR, mode of action and uses of Fluoro butyphenones.
- 10. Write the synthesis, mode of action and uses of Diazepam.
- 11. Discuss effect of optical isomerism on drug action.
- 12. Write a note on adrenergic receptors and their distribution.
- 13. Write the synthesis, mode of action and uses of Phenytoin.