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**B.PHARM**  
**(SEM IV) THEORY EXAMINATION 2022-23**  
**MEDICINAL CHEMISTRY-I**

**Time: 3 Hours**

**Total Marks: 75**

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A** <https://pharmacyindia.co.in/>

**1. Attempt all questions in brief. 10 x 2 = 20**

- Define Bioisosterism. Give examples.
- Give name and structures of two narcotic antagonists.
- Discuss mechanism of Methohexital sodium.
- What is Cholinesterase reactivator? Write its example and use.
- Write synthesis of Phenytoin.
- Give uses of Tolazoline and Dicyclomine hydrochloride.
- Mention the significance of Ionization and solubility in relation to biological action.
- Enumerate Adrenergic receptors and their distribution.
- Differentiate Phase I and Phase II reactions.reactions.
- From which category chlorpromazine drug belongs? Give its structure.

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**SECTION B**

**2. Attempt any twoparts of the following: 2 x 10 = 20**

- What are Sedatives and Hypnotics? Classify them. Give SAR of Benzodiazepines, and synthesis of Diazepam.
- Classify Narcotic analgesics. Write SAR of Morphine analogues in detail.
- Explain Physicochemical properties in relation to biological action in detail.

**SECTION C** <https://pharmacyindia.co.in/>

**3. Attempt any fiveparts of the following: 7 x 5 = 35**

- Give uses, mechanism and synthesis of any two: Carbachol / Neostigmine /Salbutamol.
- What are Sympathomimetic agents? Classify them.
- Classify anti-inflammatory agents. Discuss the mode of action and synthesis of ibuprofen.
- Write short note on Adrenergic Antagonists.
- Discuss SAR of Phenothiazines. <https://pharmacyindia.co.in/>
- Write short note on Cholinesterase inhibitors
- Elaborate Drug metabolism principles of Phase I and Phase II.