Printed Pages:01 **Sub Code: BP 402T**

Paper Id: 238077 **Roll No.** | | | | | | | | | | |

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

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

(a) Define Bioisosterism. Give examples.

(b) Give name and structures of two narcotic antagonists.

(c) Discuss mechanism of Methohexital sodium.

(d) What is Cholinesterase reactivator? Write its example and use.

(e) Write synthesis of Phenytoin.

(f) Give uses of Tolazoline and Dicyclomine hydrochloride.

(g) Mention the significance of Ionization and solubility in relation to biological action.

(h) Enumerate Adrenergic receptors and their distribution.

(i) Differentiate Phase I and Phase II reactions.reactions.

(j) From which category chlorpromazine drug belongs? Give its structure.

SECTION B

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

(a) What are Sedatives and Hypnotics? Classify them. Give SAR of Benzodiazepines, and synthesis of Diazepam.

(b) Classify Narcotic analgesics. Write SAR of Morphine analogues in detail.

(c) Explain Physicochemical properties in relation to biological action in detail.

SECTION C

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

(a) Give uses, mechanism and synthesis of any two: Carbachol / Neostigmine /Salbutamol.

(b) What are Sympathomimetic agents? Classify them.

(c) Classify anti-inflammatory agents. Discuss the mode of action and synthesis of ibuprofen.

(d) Write short note on Adrenergic Antagonists.

(e) Discuss SAR of Phenothiazines.

(f) Write short note on Cholinesterase inhibitors

(g) Elaborate Drug metabolism principles of Phase I and Phase II.

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