

Paper Id:

910027

Roll No:

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B PHARM
(SEM-IV) THEORY EXAMINATION 2021-22
MEDICINAL CHEMISTRY – I Theory

Time: 3 Hourswww.aktupreviousyearpaper.in**Total Marks: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

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SECTION A

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. Define metabolism..
 - b. Point out the role of partition coefficient in relation to biological action of drug?
 - c. Describe the synthesis of Tolazoline.
 - d. Give structure and uses of Phenylephrine.
 - e. Discuss cholinergic receptors and their distribution.
 - f. Differentiate anticholinergics and anticholinesterases.
 - g. Compare the basic ring structures and mention uses of barbiturate and benzodiazepine
 - h. Give the MOA and structure of chlorpromazine,
 - i. Discuss the synthesis of drug that causes dissociative anaesthesia.
 - j. Name and give structures of any two narcotic antagonists.

SECTION B

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Summarize about various physicochemical parameters that affect of drug action.
 - b. Classify sedative and hypnotics, Outline the synthesis, mechanism of action and uses of diazepam.
 - c. Classify NSAIDs. Give the synthesis of Ibuprofen.

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SECTION C

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- a. Compare phase I and phase II metabolism. Discuss various factors affecting drug metabolism.
 - b. Outline the classification and SAR of sympathomimetics.
 - c. Illustrate the MOA, synthesis and uses of (i) Dicyclomine hydrochloride (ii) Carbachol.
 - d. Classify anticonvulsant and give synthesis of phenytoin.
 - e. Classify general anaesthetics. Give synthesis of halothane.
 - f. Explain the biosynthesis and catabolism of catecholamines.
 - g. Give synthesis of propranolol and discuss SAR of beta blockers.