

K-395

Total Pages : 3

Roll No.

MSCCH-608

Medicinal Chemistry

M.Sc. Chemistry (MSCCH)

4th Semester Examination, 2023 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Discuss the different type of theories of drug activity.
2. What is the pharmacokinetics? What are the main factors that influence the pharmacokinetics of a drug?
3. What is Cardiovascular Drugs? Discuss the different type of the Cardiovascular Drugs.
4. Discuss role of hormones and natural products in cancer chemotherapy.
5. Attempt any *two* of the following :
 - (a) Structure-activity relationship (SAR).
 - (b) Enzyme inhibition.
 - (c) Synthesis of amyl nitrate.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Write short note on :
 - (a) Hansen analysis.
 - (b) Sulfonamides.

2. Discuss about the enzyme stimulation.
 3. What is the Genetherapy?
 4. Synthesis of following drugs and give their uses :
 - (a) Mechllorethamine.
 - (b) Cyclophosphamide.
 5. Discuss the relationships between Free-Wilson and Hansch analysis.
 6. What is the Bioisosterism?
 7.
 - (a) Classify the cancer calls
 - (b) What is the Anti-Anginal medications?
 8. Discuss the disposition of drugs and their distribution by using pharmacokinetics.
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