

P-78

Total Pages : 3

Roll No.

MSCCH-608

Medicinal Chemistry

M.Sc. Chemistry (MSCCH)

4th Semester Examination, 2023 (June)

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 answer 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. (a) How is structure-activity relationship used in drug design?
(b) What is the quantitative structure activity relationship?

2. What is the Biotransformation ? Discuss the different type of Biotransformation reactions.
3. Synthesis of sorbitrate, verapamil, atenolol drugs and give their application.
4. What is the chemotherapy? Discuss the different type of the Chemotherapy.
5. Attempt any *two* of the following :
 - (a) Cardiovascular diseases.
 - (b) Cardiac Glycosides.
 - (c) Hormones.

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. Attempt the any *two* of the following :
 - (a) Antineoplastic agents.
 - (b) Soft drugs.
 - (c) Quinidine.

2. Synthesis the following drugs :
 - (a) Melphalan.
 - (b) Uracil.

 3. Write shot note on :
 - (a) Hansch analysis.
 - (b) Sulfonanilides.

 4. What is the absorption phase in pharmacokinetics?

 5. Discuss the role of Antimetabolites in the treatment of cancer

 6. What is Anti-Hypercholesteremic drug?

 7.
 - (a) What is the Carcinolytic Antibiotics?
 - (b) What is the significance of drug metabolism in medicinal chemistry ?

 8. What is the difference between non-linear and linear pharmacokinetics?
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