

FOURTH SEMESTER EXAMINATION 2021-22**M.Sc. CHEMISTRY****Paper - III****Medicinal Chemistry**

Time : 3.00 Hrs.

Max. Marks : 80

Total No. of Printed Page : 03

Mini. Marks : 29

Note:- Question paper is divided into three sections. Attempt question of all three section as per direction Distribution of marks is given in each section.

Section 'A'**Very short answer question (in few words)**

Q.1 Attempt any six questions from the following :

6x2=12

- (i) What is hypertension ? Name any two hypertensive drug with chemical formula.
- (ii) What is disposition of drugs.
- (iii) What is carcinolytic antibiotics. Give one example.
- (iv) Give two name of cardiovascular drug.
- (v) What is the structure of Penicillin-G.
- (vi) What are neurotransmitters.
- (vii) What is Biotransformation.
- (viii) Write the structure and name of drug commonly used in Narco analysis test.
- (ix) What is lactum ring.
- (x) Explain the term 'first pass effect'.

(2)

Section 'B'

Short answer type question (in 200 words)

Q.1 Attempt any four questions from the following : 4x5=20

- (i) What do you mean by Pharmaco-kinetics. Explain in detail.
- (ii) What are the factors responsible for the difference in the drug distribution in persons of different age groups.
- (iii) What do you understand by antineoplastic agent.
- (iv) Give the synthesis of Amyl Nitrate.
- (v) How drugs affect the functioning of Heart.
- (vi) What are anti anxiety drugs ? How these drugs reduce anxiety ?
- (vii) Explain the classification of local anti infective drugs with example.
- (viii) Write short note on Neurotransmitters.

Section 'C'

Long answer/Essay type question.

4x12=48

Q.3 Attempt any four questions from the following questions :

- (i) What do you mean by the term "Antibiotics". Define the different natural Penicillin.
- (ii) Mention three important route of drugs administration. Give advantages and disadvantages of each of them.
- (iii) Write short note on the following :
 - (a) Chloroquin and Primoquin
 - (b) Diazepam
 - (c) Methyl-Dopa

(3)

- (iv) What is absorption of drugs. Discuss the various factors affecting the drug absorption.
- (v) What is the difference between Carcinolytic Antibiotics and chemotheraptic agent. Give an example of both of them. Name two Cancerous condition in which Cyclophosphamide is used.
- (vi) Describe the synthesis of Melphalan and Mustard.
- (vii) Write synthesis and uses of following drugs :
- | | |
|----------------|-----------------|
| 1. Barbitrates | 2. Tetracycline |
| 3. Chlorazepam | 4. Verapamil. |
- (viii) Give a brief account of different type of cardiovascular drug and its uses.

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