

PD - 496
M.Sc. Chemistry (Fourth Semester)
Examination June 2021
Paper-III
Medicinal Chemistry

Time : Three Hours]

[Maximum Marks : 80
[Minimum Pass Marks : 29

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1. Answer the following section:-

2x10

- (a) What do you mean by prodrug and soft drugs.
- (b) What is QSAR.
- (c) Give two CNS depressant and two CNS stimulants.
- (d) What is hypertension Name any one hypenrtensive drug with chemical formula.
- (e) What is biotransformagtion.
- (f) Define Pinocytosis.
- (g) Write one example of i- Acidic Drug ii- Basic Drug
- (h) Write full form of i- CNS ii- DA
- (i) What is sarcoma.
- (j) What is antimanic drug.

Section-B

Answer all question-

2. What do you mean by the term "Absorption of drug". Discuss the various factors affecting drug absorption.

12

OR

Mention three important router of drug administration give advantages and disadvantages of each of them.

- 3- What do you understand by term pharmaco kinetics? Discuss important pharmacokinetic parameters in defining drug disposition and therapeutics.

12

OR

Write note on the following-

- a- Pharmacokinetics of elimination
- b- Pharmacokinetics in drug development process

4- Explain the following-

12

- a- Mechanism of tumor formation.
- b- Roleof alkylating agents in treatment of cancer.

OR

Give the synthesis of the following drugs.

- a- Amino salicylic acid
- b- Chloroquine
- c- Ethambutol

- 5- Explain different types of Cardiovascular diseases? Give structure, synthesis and mode of action of the following cardio vascular drug.

12

- a- Amyl Nitrate b- Veradamil

OR

- a- Define and classify cardiouascular drugs.
- b- How durgs affect the functioning of heart.
- c- Describe the syothesis of- a- Amyl Nitrats b- Methyl Dopa

6- a - What are anti anxiety drugs. How these drug reduce anxiety.

12

- b- Differentiate among hypnotics, sedatives and anticonulsants by given example.

OR

Give a brief account of different types of psychoactive drugs. Write the importance of the stereochemical aspect of psychotropic drugs.