

MSc Sem.-1 Examination

403

Toxicology

Time : 2-30 Hours]

February-2025

[Max. Marks : 70

Q1A	Write a note on Ethanol and its hepatotoxic mechanism.	7 Marks
Q1B	Enlist various routes of administration and explain Inhalation and Transdermal Route.	7 Marks
OR		
Q1A	Write a note on bromobenzene and its toxicological effect on liver.	7 Marks
Q1B	Write a note on ECG and explain significance of each wave.	7 Marks
Q2A	Write in detail about structure of brain with help of diagram.	7 Marks
Q2B	Describe Bronchial tree. Explain various pulmonary toxicity with their causative agents.	7 Marks
OR		
Q2A	Write in detail and illustrate about mechanisms of neurotoxicity with examples.	7 Marks
Q2B	Give in detail Pulmonary Function Tests (PFT).	7 Marks
Q3A	Explain female internal reproductive organ with diagram. What are causes of reproductive toxicity in female?	7 Marks
Q3B	Write a note on amino glycosides and amphoteric in B toxicity.	7 Marks
OR		
Q3A	Explain the physiology of the heart and discuss the toxicological mechanisms by giving any two examples.	7 Marks
Q3B	Discuss the impact of endocrine-disrupting chemicals (EDCs) on male and female reproductive health, including mechanisms and examples.	7 Marks
Q4A	What is Pharmacokinetics? Write a note on Absorption and Factors affecting absorption.	7 Marks
Q4B	Explain Metabolism and write a note on Phase I and Phase II Reactions.	7 Marks
OR		
Q4A	Write a Brief note on Drug Synergism and Drug Antagonism.	7 Marks
Q4B	Write a note on Distribution and Plasma Protein Binding.	7 Marks
Q5	Answer the following questions (Any Seven)	14 Marks
I	Digoxin is obtained from which source?	2 Marks
II	Basic Drugs bind to which plasma protein?	2 Marks
III	What is evacuant enema?	2 Marks
IV	Explain Synergism.	2 Marks
V	Define agonist and Antagonist.	2 Marks
VI	What is LD50?	2 Marks
VII	Define: idiosyncratic hepatotoxicant	2 Marks
VII	What are CYP inducers and CYP inhibitors?	2 Marks
IX	How does Troglitazone is toxic?	2 Marks
X	How does 3-methylcholanthrene decrease bromo benzene hepatotoxicity?	2 Marks
XI	Write about any four myopathies.	2 Marks
XII	What is evacuant enema?	2 Marks

BEST OF LUCK