

## MSc Sem.-1 Examination

403

Pharma Science

February-2025

Time : 2-30 Hours]

[Max. Marks : 70

Q1A	Write in detail about history of toxicology.	7 Marks
Q1B	Explain plant toxin with examples.	7 Marks
OR		
Q1A	Write about human health risk assessment.	7 Marks
Q1B	Define toxicology and write overview of it.	7 Marks
Q2A	Explain Metabolism and write a note on Phase I and Phase II Reactions	7 Marks
Q2B	Explain Factors modifying Drug action.	7 Marks
OR		
Q2A	What is Pharmacokinetics? Write a note on Absorption and Factors affecting absorption.	7 Marks
Q2B	Write a Brief note on Drug Synergism and Drug Antagonism.	7 Marks
Q3A	Elaborate and illustrate about transport of respiratory gases.	7 Marks
Q3B	Name route of exposure, explain any two in detail.	7 Marks
OR		
Q3A	Write a note on ECG and explain significance of each wave.	7 Marks
Q3B	Describe Mechanism of respiration in detail.	7 Marks
Q4A	Discuss in detail about amino glycoside, cyclosporine and cisplatin induced kidney toxicity.	7 Marks
Q4B	Give detailed explanation with diagram on model and mechanism of drug induced toxicity of liver.	7 Marks
OR		
Q4A	Write a note on Heavy metal injury with respect to Kidney.	7 Marks
Q4B	Explain with the help of flow chart for types of liver injuries and riskfactors giving rise to liver injury.	7 Marks
<b>Q5</b>	<b>Answer the following questions (Any Seven)</b>	<b>14 Marks</b>
I	Give statement of Paracelsus.	2 Marks
II	Give examples of animal toxins	2 Marks
III	What are cytotoxins?	2 Marks
IV	Define agonist and Antagonist.	2 Marks
V	Define LD50.	2 Marks
VI	What is the formula to calculate dose according to body weight?	2 Marks
VII	Give properly labelled diagrammatic representation of alveoli.	2 Marks
VII	Define xenobiotic poison.	2 Marks
IX	Describe any four forms of liver toxicity.	2 Marks
X	Explain role of carbon tetrachloride in hepatotoxicity.	2 Marks
XI	Name all the valves of the heart with their respective functions.	2 Marks
XII	What are CYP inducers and CYP inhibitors?	2 Marks

BEST OF LUCK