

M.Sc. Sem.-1 Examination

403

Pharma Science

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Q.1A	Write in detail about modes of toxic action.	7
Q.1B	Write in detail about routes of exposure.	7
	OR	
Q.1A	Classify distinct types of toxicants.	7
Q.1B	Write a thorough explanation of how animal toxins work.	7
Q.2 A	What do you mean by Parenteral routes of drug administration? Enlist them and write a note on Intramuscular Injection	7
Q.2 B	Write a Brief note on Pharmacokinetics	7
	OR	
Q.2 A	What are the advantages and disadvantages of Oral routes of Drug administration	7
Q.2 B	Explain factors affecting Drug Absorption	7
Q.3 A	Explain anatomy and physiology of liver with hepatic cell structure.	7
Q.3 B	A. Explain the cardiac conducting system and circulation of blood. B. Classify nervous system. Explain in detail neurons with its diagram.	7
	OR	
Q.3 A	Describe the pulmonary system with a trachea-bronchial tree. Explain the exchange of gases. What causes toxicity in lungs?	7
Q.3 B	Give a diagrammatical representation of nephrons with the process of urine formation. Explain nephron toxicity in detail.	7
Q.4 A	Explain male reproductive system with diagram. What are the causes of toxicity and explain the disorder.	7
Q.4 B	Give anatomy and physiology of the integumentary system. Explain layers of epidermis and its significance. Give types of integumentary toxicity.	7
	OR	
Q.4 A	Define muscular system. Explain skeletal muscles in detail with a diagram. What are the different types of muscular disorders?	7
Q.4 B	What is the human skeletal system? Give classification of human bones. Explain the different types of bones present in the human body.	7
Q.5	Answer the Following Short Questions (Any 7)	14
1	Who is father of modern toxicology?	
2	What is intrahepatic cholestasis?	
3	Define Bioactivation.	
4	Define xenobiotic.	
5	Can you explain the mechanisms through which toxins lead to encephalopathy in Acute Diffuse Toxic Encephalopathy?	
6	What is minor calyx and major calyx?	
7	Explain how the first and second heart sounds are associated.	
8	What is myocarditis and pericarditis?	
9	How is myasthenia gravis differ from sarcopenia.	
10	What is the use of estrogen and progesterone?	
11	Explain functions of Kuppfer cells?	
12	Which Organ is Responsible of Excretion of Drugs	