

## M.Sc Semester-2 Examination

409

## Biomedical Technology

Time : 2-30 Hours]

April-2024

[Max. Marks : 70

Q-I	1	What is the role of sodium? Discuss its diagnostic importance.	(14)
	2	What is CSF? Discuss composition and various tests of CSF.	
	OR		
	1	Discuss the absorption, transport and storage of Iron.	
	2	How are d-dimers formed? What is the clinical significance of a d-dimer test?	
Q-II	1	Explain various types of blood lipids.	(14)
	2	Write a short note "Clinical application of A/G ratio".	
	OR		
	1	Describe the role of blood lipids in human physiology with their functions and significance.	
	2	Write a short note on "Clinical application of thrombin time".	
Q-III	1	What is a molecular diagnosis test? Explain the importance of it.	(14)
	2	Explain briefly: Importance of biochemical tests in diagnosis.	
	OR		
	1	What is QA & QC? Describe it by any one example.	
	2	Explain molecular pathology by any one example.	
Q-IV	1	Explain in detail: In-vitro diagnostic tests for detection of viral diseases.	(14)
	2	What is immunoglobulins blood test? Write down principle and application of immunoglobulins blood test in detail.	
	OR		
	1	What is serological testing? Give the definition and importance of different types of serology tests.	
	2	Explain in detail: Physical and chemical tests of urine for diagnosis of kidney disease.	
Q-V	Answer any SEVEN out of TWELVE.		(14)
	1	List the Iron panel tests. Explain any one test.	02
	2	How is CSF collected from a patient? State the indications.	02
	3	Briefly explain: Ferritin is a good clinical biomarker	02
	4	Write the origin and symptoms of Niemann Pick disease.	02
	5	Write principle for measuring protein concentration using BCA.	02
	6	Explain relationship of blood cholesterol and atherosclerosis.	02
	7	Explain "Ataxia".	02
	8	What is quantitative calibration?	02
	9	What is a screening test?	02
	10	Give full name of SRID and DRID in serology test.	02
	11	Give any two examples of cellular casts and acellular cast.	02
	12	Write down principle of latex agglutination test.	02