

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biological and Life Sciences Summer Term Examination – July - August 2024 [Programme: BSc Biomedical Science] [Semester: V] [Batch:]				
Course Title: Medical Biochemistry		Max Marks: 100		
Course Code: C2UA502T		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	What are isoenzymes? Describe the various isoenzymes of LDH	K1	CO2	5
2.	Differentiate between fat soluble and water soluble vitamins	K2	CO3	5
3.	What is DNA fingerprinting? Describe the principle behind DNA fingerprinting	K1	CO5	5
SECTION-B (40 Marks)		10 Marks each		
4.	Predict the role of various types of genes involved in cancer progression.	K2	CO5	10
5.	Demonstrate the role, physiology, sources and deficiency disorders of Vit B1, Vit B9, Vit K and Vit B12.	K4	CO3	10
6.	Assess the role of Hybridoma technology in the production of monoclonal antibodies.	K3	CO5	10
7.	Describe the process of DNA amplification in the context of forensic DNA analysis.	K3	CO5	10
SECTION-C (45 Marks)		15 Marks each		
8.	Summarise any 4 carbohydrate metabolism disorders explaining their symptom, cause and physiology.	K4	CO1	15
9.	Write the etiology of cancer.	K5	CO4	15
10	Elaborate the major classes of anticancer drugs, including cytotoxic agents, targeted therapies, and immunotherapies.	K6	CO4	15