

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
<b>School of Biomedical Sciences</b> <b>Summer Term Examination – July - August 2024</b> <b>[Programme: B. Sc. (Hon.) Forensic Science] [Semester: I ]</b>				
Course Title: <b>Fundamentals of Biology</b>		Max Marks: <b>100</b>		
Course Code: <b>C2UD120B</b>		Time: <b>3 Hrs.</b>		
<b>Instructions</b>	<i>1. All questions are compulsory.</i> <i>2. Assume missing data suitably, if any.</i>			
		K Level	COs	Mark s
<b>SECTION-A (15 Marks)</b>		<b>5 Marks each</b>		
1.	Explain DNA.	K1	CO1	5
2.	Describe the structure, properties, and functions of proteins in the human body.	K2	CO2	5
3.	Describe the structure of a neuron and explain its function in transmitting nerve impulses	K2	CO3	5
<b>SECTION-B (40 Marks)</b>		<b>10 Marks each</b>		
4.	Describe the structure of the skin, including the different layers and their respective functions.	K1	CO1	10
5.	Explain the structure of a sperm cell and its role in fertilization	K3	CO2	10
6.	Compare and contrast mitosis and meiosis in terms of their purpose, stages, and outcomes.	K4	CO3	10
7.	What are the main components of blood, and what functions do each of these components serve?	K4	CO4	10
<b>SECTION-C (45 Marks)</b>		<b>15 Marks each</b>		
8.	Define Basal Metabolic Rate (BMR) and explain its significance in relation to energy metabolism.	K3	CO3	15
9.	Explain the Mendel's laws of inheritance.	K5	CO4	15
10	List the bones of the skull, vertebral column, and rib cage, and describe the function of each section	K6	CO5	15