Name. _____	**Printed Pages:01**
Student Admn. No.: _____	

School of Biomedical Sciences

Back Paper Examination Even Semester (Non - Graduating Batches) – June 2024

[Programme: M.Sc. Forensic Science] [Semester: II)[Batch:]

Course Title: Elements of Forensic Biology	**Max Marks: 100**
Course Code: MBS27T1111	**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.	Define antigen-antibody binding reactions. Mention different types of antibodies and their functions.	K1	CO2	5
2.	What is ABO blood grouping system? Describe the role of Rh system in our body.	K1	CO1	5
3.	Outline the functions performed by blood in body. Define the composition of blood.	K2	CO2	5
SECTION-B(40 Marks) 10 Marks each				
4.	Discuss the principle and procedure of Takayama test to ascertain the presence of blood sample found at a crime scene. How Takayama test is useful in Forensic science?	K6	CO5	10
5.	How will you compare between human and animal hair? Write the forensic application of hair sample present at a crime scene?	K2	CO6	10
6.	Construct a roadmap on how to collect and preserve blood sample present at various surfaces?	K3	CO2	10
7.	Discuss the principle and procedure of Acid phosphatase test to ascertain the presence of semen sample found at a crime scene. How acid phosphatase test is useful in Forensic science?	K6	CO4	10
SECTION-C (45 Marks) 15 Marks each				
8.	(a) Classify donar and recipient in case of ABO blood grouping system. (b) Define different types of blood pattern analysis and their significance.	K4	CO3	15
9.	(a) Define any two presumptive test for semen analysis. (b) How will you ascertain presence of saliva in a sample obtained from crime scene? Explain!	K2	CO4	15
10	Discuss in detail (a) touch DNA profiling, (b) microbial forensics	K6	CO6	15