

M.Sc.(Forensic Sci.) Semester - 2 (CBCS) Examination**April/May-2023 (NEW COURSE)****Forensic Biology and Serology (Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following question. (04)**
Draw a diagram of prokaryotic cell and describe cell wall.
- Q.1(B) Answer the following question. (Any Two) (10)**
 1. How amino acids are different from others organic acids? Describe the process of protein manufacture.
 2. Write a brief note of lipids
 3. How Monosaccharides are different from Disaccharides?
- Q.2(A) Answer the following question. (04)**
What do you know about human blood? Write a composition of human blood.
- Q.2(B) Answer the following question. (Any Two) (10)**
 1. If you come across a red stain cloth piece, How will you perform the test for blood identification?
 2. Elaborate the test for the positive identification of human saliva sample.
 3. What is the composition of human sweat and saliva? How its important in forensic cases?
- Q.3(A) Answer the following question. (04)**
Elaborate the confirmatory test of human blood.
- Q.3(B) Answer the following question. (Any Two) (10)**
 1. Describe collection and packaging techniques of dry and liquid blood sample
 2. Write a short note on urine identification test.
 3. List out the various biological evidences which may have DNA and also give any two biological evidences preliminary test.
- Q.4(A) Answer the following question. (04)**
What do you know about wildlife forensic? List out various types of evidences are analyzed under this division.
- Q.4(B) Answer the following question. (Any Two) (10)**
 1. How will you determine the time scene death with the help of entomology?
 2. Write a short note on life cycle of blow fly.
 3. Elaborate the role of beetles in forensic entomology.
- Q.5(A) Answer the following question. (04)**
What do you know about the stature? How will you determine the stature?
- Q.5(B) Answer the following question. (Any Two) (10)**
 1. As a Forensic anthropologist you have recovered one human pelvis, investigating officer would ask you about the sex and age of that human pelvis: how will you solve that quires?
 2. As a forensic anthropologist how can you differentiate the male skull to female skull? Give any five points which give clear cut difference between both the sexes.
 3. Briefly explain the techniques for identifying the race using the skull.
