

B.Sc.(FS) Semester - 5 (CBCS) Examination**Oct/Nov - 2023 (NEW COURSE)****Forensic Biology, Serology and Anthropology(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

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

- Que.1(A) Answer the following question very shortly. (04)
1. Define melanuria.
 2. What kind of body fluid can help solve a crime if a person killed by a sword?
 3. Name the scientist who discovered ABO blood group system?
 4. What is the work of hemoglobin?
- Que.1(B) Answer any one in brief. (03)
1. Write the test for analysis of saliva.
 2. What is secretor?
- Que.1(C) Answer any one in detail. (07)
1. Write the TMB and Kastle Meyer test in details.
 2. Write a note on Urine and its examination.
- Que.2(A) Answer the following question very shortly. (04)
1. Who is the father of DNA fingerprint in India?
 2. VNTR stands for _____.
 3. What are the main functions of DNA polymerase?
 4. Who is the father of human genome project?
- Que.2(B) Answer any one in brief. (03)
1. Role of DNA fingerprinting in forensic science.
 2. What is the application of DNA profiling?
- Que.2(C) Answer any one in detail. (07)
1. PCR technique and its role in forensic science.
 2. Write a note on RFLP technique.
- Que.3(A) Answer the following question very shortly. (04)
1. Which enzyme joins two molecules through covalent bond?
 2. By whom enzyme name was suggested?
 3. What is wavelength of color in visible spectrometry?
 4. Which enzyme breakdown protein to amino acid?
- Que.3(B) Answer any one in brief. (03)
1. Explain enzyme assay technique.
 2. Write a note on nomenclature of enzyme.
- Que.3(C) Answer any one in detail. (07)
1. Describe the method of protein purification.
 2. Explain enzyme classification.
- Que.4(A) Answer the following question very shortly. (04)
1. What is forensic botany?
 2. What is the scientific name of tobacco?
 3. What kind of schedule does the lion come in _____.
 4. What is palynology?

- Que.4(B) Answer any one in brief. (03)
1. Describe wild life protection act.
 2. Describe morphological and anatomical character of cannabis plant.
- Que.4(C) Answer any one in detail. (07)
1. Describe life cycle of blow fly with diagram.
 2. Examination of physical evidence related to wild life animals.
- Que.5(A) Answer the following question very shortly. (04)
1. Cusp present in _____.
 2. Cranium capacity in female is _____.
 3. Which bone is used for age & gender identification?
 4. What is the dental formula for permanent teeth?
- Que.5(B) Answer any one in brief. (03)
1. Write the multiplication factor used in pan formula.
 2. What is forensic odontology? Describe its application.
- Que.5(C) Answer any one in detail. (07)
1. Describe the types and structure of teeth.
 2. Explain Karl person formula, pan formula, trotter and Glesser formula for measurement of stature.
