

B.Sc.(FS) Semester - 5 (Remedial) (CBCS) Examination
March/April-2024 (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.
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- Que.1(A) Answer the following question very shortly. (04)
- 1) Write the composition of Saliva.
 - 2) What kind of body fluid could help solve a crime if a person killed by a sword?
 - 3) Name the scientist who discovered the 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 non-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) Name the father of DNA fingerprint in India.
 - 2) Write full form of VNTR.
 - 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) Name the enzyme which joins two molecules through covalent bond?
 - 2) 'Enzyme' name was suggested by _____.
 - 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) Define: Forensic botany
 - 2) Write 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 wildlife 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 wildlife animals.
- Que.5(A) Answer the following question very shortly. (04)
- 1) Cusp present in _____.
 - 2) Write the Cranium capacity in female.
 - 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.
