

B.Sc.(FS) Semester - 5 (Remedial) (CBCS) Examination
March/April-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.

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- Q-1 (A) Answer in short:** **04**
1. Full Form of PSA is _____.
 2. Name the test which is used to identify whether it is human blood or animal blood.
 3. To solve a crime if person is killed by a sword _____ body fluid can help.
 4. Write the examples of secreted body fluids in humans.
- Q-1(B) Answer any one in brief:** **03**
1. Write the characteristics & composition of Urine.
 2. Explain the Structure of Sperm.
- Q-1(C) Answer any one in detail:** **07**
1. Explain the Confirmatory tests for analysis of Blood.
 2. Write briefly about: Acid Phosphate Test & Gram Staining Test.
- Q-2 (A) Answer in short:** **04**
1. Give the full form of RFLP.
 2. Human Genome Project was started in year _____.
 3. Which test is used to identify the culprit from a vaginal swab in a rape case?
 4. Name the pioneer of DNA based identity testing.
- Q-2 (B) Answer any one in brief:** **03**
1. Write the applications of DNA profiling.
 2. Explain the role of DNA fingerprinting in Forensic Science.
- Q-2 (C) Answer any one in detail:** **07**
1. Write a note on PCR technique with Forensic importance.
 2. Explain Human Genome Project briefly.
- Q-3 (A) Answer in short:** **04**
1. Define: Apoenzyme.
 2. The name 'Enzyme' was suggested by _____.
 3. Which enzyme breaks down into protein to amino acid?
 4. Name the enzyme is present in Saliva.
- Q-3 (B) Answer any one in brief:** **03**
1. Write a note on Enzyme Assay.
 2. Explain action mechanisms of enzyme.
- Q-3 (C) Answer any one in detail:** **07**
1. Describe the methods of Protein purification.
 2. Explain: Enzyme Classification.
- Q-4 (A) Answer in short:** **04**
1. Define the term Forensic Entomology.
 2. Study of pollen grains is known as _____.
 3. What is the Scientific name of Opium.
 4. In which year did the Wildlife Protection Act come?

- Q-4 (B) Answer any one in brief:** **03**
1. Explain morphological and anatomical characteristic of cannabis Plant.
 2. Describe the life cycle of blow-fly.
- Q-4 (C) Answer any one in detail:** **07**
1. Write a note on medicolegal importance of Forensic Entomology.
 2. Write application of botany in aid of Forensic Science.
- Q-5 (A) Answer in short:** **04**
1. What is the use of Karl Pearson formula?
 2. Write number of temporary teeth found in humans.
 3. What is the cranium capacity of male while compared to female.
 4. Cusp is present on _____.
- Q-5 (B) Answer any one in brief:** **03**
1. Explain the term Forensic Anthropology.
 2. Write the significance of Forensic Odontology.
- Q-5 (C) Answer any one in detail:** **07**
1. Explain the morphological and anatomical differences between the male and female bones.
 2. Write a note on type& structure of teeth.
