

B.Sc. (FS) Semester - 5 (CBCS) Examination**Oct/Nov - 2022 (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.

Q-1 (A) Answer in short: (04)

1. Name the test which is used to identify whether it is human blood or animal blood.
2. _____ body fluid can help to solve a crime if person is killed by a sword.
3. Write the examples of secreted body fluids in humans.
4. Full Form of PSA is _____.

Q-1(B) Answer any one in brief: (03)

1. Write the characteristics & composition of Saliva.
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. Explain briefly: Acid Phosphate Test & Gram Staining Test.

Q-2 (A) Answer in short: (04)

1. Human Genome Project was started in year _____.
2. Which test is used to identify the culprit from a vaginal swab in a rape case?
3. Write full form of RFLP.
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. The name 'Enzyme' was suggested by _____.
2. Which enzyme breaks down into protein to amino acid?
3. Define: Apoenzyme.
4. Which 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. _____ is know as study of pollen grains.
2. Write Scientific name of Opium.
3. Define: Forensic Entomology.
4. Wild Life Protection Act came in year _____.

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. _____ number of temporary teeth found in humans.
2. What is the cranium capacity of male while compared to female.
3. Cusp is present on _____.
4. Karl Pearson formula is used for?

Q-5 (B) Answer any one in brief: (03)

1. Write the significance of Forensic Odontology.
2. Explain the term Forensic Anthropology.

Q-5 (C) Answer any one in detail: (07)

1. Write a note on type & structure of teeth.
2. Explain the morphological and anatomical differences between the male and female bones.
