

B.Sc. Semester - 5 (CBCS) Examination**February/March. -2020****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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Q1 (A) Answer in short: (04)

1. Mention types of blood group systems based on proteins.
2. What is the percentage of secretors and non-secretors in general population?
3. Which are the major glands producing saliva?
4. What is meant by hematuria?

Q1 (B) Answer any one in brief: (03)

1. Explain the significance of blood typing.
2. Write the tests for analysis of saliva.

Q1 (C) Answer any one in detail: (07)

1. Write a note on confirmatory tests for analysis of blood.
2. Explain the tests for analysis of semen.

Q2 (A) Answer in short: (04)

1. Who invented the technique of PCR?
2. From which bacteria is enzyme TAQ Polymerase obtained?
3. What is a molecular marker?
4. What does VNTR stand for?

Q2 (B) Answer any one in brief: (03)

1. Define molecular markers and give four examples of molecular markers.
2. What are the applications of DNA profiling?

Q2 (C) Answer any one in detail: (07)

1. Write a note on RFLP.
2. Write a note on STR.

Q3 (A) Answer in short: (04)

1. What are biocatalysts?
2. Who isolated the urease enzyme?
3. What are proteases?
4. What is an apoenzyme?

Q3 (B) Answer any one in brief: (03)

1. Write a brief note on types of enzymes.
2. Briefly explain enzyme assay.

Q3 (C) Answer any one in detail: (07)

1. Explain mode of action of enzymes.
2. Write a detailed note on enzyme assay.

Q4 (A) Answer in short: (04)

1. Define palynology.
2. Which flies is the first one to arrive on the dead bodies?
3. Mention names of plants used to manufacture drugs?
4. Mention names of any two endangered species of animals.

Q4 (B) Answer any one in brief: (03)

1. Explain types of entomology.
2. Write a note on wildlife sanctuaries and its importance.

Q4 (C) Answer any one in detail: (07)

1. Explain the life cycle of a blow fly.
2. Write a note on green collar crimes, evidence involved and the analysis in brief.

Q5 (A) Answer in short: (04)

1. Define anthropology.
2. What is Karl Pearson formula used for?
3. What is the number of molars to be erupted as temporary teeth?
4. What is the dental formula for permanent teeth?

Q5 (B) Answer any one in brief: (03)

1. What are the applications of forensic anthropology?
2. What are the applications of forensic odontology?

Q5 (C) Answer any one in detail: (07)

1. Mention at least 7 differences between male and female bones.
2. Explain diseases of teeth involving cementum.
