

B.Sc.(FS) Semester - 5 (CBCS) Examination**Oct/Nov. – 2019****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. Give the names of body fluids secreted from the body.
2. What is melanuria?
3. What is the tail of sperm contained of?
4. What is meant by PSA?

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

1. Explain Florence test.
2. Explain the structure of sperm.

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

1. Write the TMB and Kastle Meyer tests in detail.
2. Explain the process of determination of species of origin.

Q2 (A) Answer in short: (04)

1. What is meant by SNP?
2. How much amount of DNA is required for RFLP?
3. What amount of intravenous blood control sample can be collected for DNA extraction?
4. In which year was PCR invented?

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

1. Write a note on components of PCR.
2. What are the disadvantages of PCR?

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

1. Write a detailed note on STR.
2. Explain DNA Profiling procedure.

Q3 (A) Answer in short: (04)

1. By whom was the name enzyme suggested?
2. What is the function of enzymes?
3. What are isoenzymes?
4. What are ligases?

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

1. Write a note on nomenclature of enzymes.
2. Explain enzyme assay.

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

1. Explain linked enzyme assay.
2. Explain action mechanism of enzymes.

Q4 (A) Answer in short: (04)

1. How long is the life cycle of a blow fly?
2. What are pollen grains?
3. What is the active constituent present in tobacco?
4. From which plant is cocaine obtained?

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

1. What are the applications of forensic entomology?
2. Write a note on importance of forensic botany and palynology.

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

1. Write a brief note on Wildlife Protection Act.
2. Draw a flow chart explaining life cycle of a blow fly.

Q5 (A) Answer in short: (04)

1. Who is considered as father of forensic anthropology?
2. For what purpose is Trotter Glesser formula used?
3. What is the dental formula for temporary teeth?
4. How many permanent teeth an individual can possibly have?

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

1. Write the multiplication factors used in Pan Formula.
2. Draw a table mentioning age of eruption of permanent teeth.

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

1. Explain the diseases of teeth which can be detected and treated in living individuals.
2. Mention the conditions when the stature of an individual can be more or less.
