

B.Sc.(FS) Semester - 5 (Remedial) (CBCS) Examination**Feb/Mar. -2021 (OLD COURSE)****FORENSIC BIOLOGY, SEROLOGY AND ANTHROPOLOGY(CORE)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q – 1 (A) Answer in short: (04)

- (1) Define melanuria
- (2) What is the percentage of secretors and non-secretors in general population?
- (3) Give the name of major glands which produces saliva.
- (4) What is meant by hematuria?

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

- (1) Explain the structure of sperm.
- (2) Explain Florence test.

Q – 1 (C) Answer any one in detail: (07)

- (1) Explain the process of determination of species of origin.
- (2) Explain the tests for analysis of semen.

Q – 2 (A) Answer in short: (04)

- (1) The PCR technique was developed by?
- (2) From which bacteria is enzyme TAQ Polymerase obtained?
- (3) Define molecular marker?
- (4) Give the full form of VNTR

Q – 2 (B) Answer any one in brief: (03)

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

Q – 2 (C) Answer any one in detail: (07)

- (1) Write a note on RFLP.
- (2) Write a note on STR.

Q - 3 (A) Answer in short: (04)

- (1) Define enzymes.
- (2) Which enzyme was isolated firstly and by whom?
- (3) What are proteases?
- (4) What is an apoenzyme?

- Q – 3 (B) Answer any one in brief: (03)
- (1) Describes the properties of enzymes.
 - (2) Briefly explain enzyme assay.
- Q - 3 (C) Answer any one in detail: (07)
- (1) Explain mode of action of enzymes.
 - (2) Write a note on nomenclature of enzymes
- Q - 4 (A) Answer in short: (04)
- (1) How long is the life cycle of a blow fly?
 - (2) What is palynology?
 - (3) What is the active constituent present in tobacco?
 - (4) Mention names of any two endangered species of animals.
- Q - 4 (B) Answer any one in brief: (03)
- (1) Explain types of entomology.
 - (2) Write a note on wildlife sanctuaries and its importance.
- Q - 4 (C) Answer any one in detail: (07)
- (1) Write a note on importance of forensic botany and palynology.
 - (2) Write a note on green collar crimes, evidence involved and the analysis in brief.
- Q - 5 (A) Answer in short: (04)
- (1) Define anthropology.
 - (2) Who is considered as father of forensic anthropology?
 - (3) For what purpose is Trotter Glesser formula used?
 - (4) What is the dental formula for permanent teeth?
- Q - 5 (B) Answer any one in brief: (03)
- (1) How the anthropology is helpful in forensic science?
 - (2) Describe the applications of odontology in forensic science.
- Q – 5 (C) Answer any one in detail: (07)
- (1) State the morphological and anatomical differences between male and female bones.
 - (2) Discuss diseases of teeth involving cementum.
