

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2021 (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. Basic amines like _____, which are responsible for the smell and flavour of semen.
 2. Give the full form of PSA.
 3. Write the formula of radial diffusion method.
 4. If we get brown-black colour urine, it indicates _____
- Q.1(B) Answer any one in brief (03)
1. Explain double diffusion method.
 2. Give the composition of saliva and write its characteristics.
- Q.1(C) Answer any one in detail (07)
1. Explain presumptive test of blood.
 2. Write a short note on serological test for species identification.
 - Ring test
 - Cross-over electrophoresis
- Q.2(A) Answer in short (04)
1. AFLP stands for _____
 2. Who was developed FTA paper?
 3. Give the advantage of PCR.
 4. What is tandem repeats?
- Q.2(B) Answer any one in brief (03)
1. What is biological marker and give their uses.
 2. Give the types of PCR and give its advantages and disadvantages.
- Q.2(C) Answer any one in detail (07)
1. Write a note on RFLP.
 2. What is DNA finger printing & explain DNA extraction method.
- Q.3(A) Answer in short (04)
1. IUB stands for _____.
 2. Give the Industrial uses of enzyme.
 3. What is epoenzyme?
 4. Give the function of isomerase group enzyme.
- Q.3(B) Answer any one in brief (03)
1. Explain enzyme linked assay.
 2. Define enzyme, nomenclature of enzyme and give the name of group of enzyme.
- Q.3(C) Answer any one in detail (07)
1. Write a short note on action mechanism of enzyme.
 2. Explain enzyme assay.

- Q.4(A) Answer in short (04)
1. What is taxidermy?
 2. The plant in schedule _____ are prohibited from cultivation and planting.
 3. What is bioterrorism?
 4. Give any four application of HGP.
- Q.4(B) Answer any one in brief (03)
1. Estimate the cause of death by study of entomology.
 2. What is starch granules and give its examination process.
- Q.4(C) Answer any one in detail (07)
1. Estimation of time scene death with the help of entomology.
 2. Define wild life protection act and give following terms
 - Animal article
 - Hunting
 - Trophy
 - Wild life
- Q.5(A) Answer in short (04)
1. Define odontology.
 2. Give the name of formula, which is used for the stature estimation.
 3. Approximate time period of eruption of temporary teeth.
 4. If we get pelvis and skull from the crime scene, it gives _____ percentage for determine the gender.
- Q.5(B) Answer any one in brief (03)
1. Explain root resorption and attrition.
 2. Give the sex determination from different bones with percentage.
- Q.5 (C) Answer any one in detail (07)
1. Explain the estimation of sex from bones.
 2. Define following terms.
 - Odontoblast
 - Cusp
 - Cementum apposition
 - Anthropology
 - Odontology.
- *****