

Sr. No. of C.P. : 6961

Your Roll No.....

Unique Paper Code : 217585  
Name of the Course : B.Sc. Mathematical Sciences  
(Concurrent Credit Course) III (i)  
Name of the Paper : Forensic Science {EL- 310 (IV)}  
Semester : V  
Duration : 3 Hours  
Maximum Marks : 75

**Instructions for the Candidates**

- i. Write your Roll No. on the top immediately on receipt of this question paper.
- ii. Attempt any five questions.
- iii. All questions carry equal marks.

1. Define the term Forensic Science. Write the names of five important branches of Forensic Science. Explain the scope and role of three of the branches in solving legal cases.
2. What are latent fingerprints? Discuss in details various methods deployed in developing the latent fingerprints.
3. What is spectroscopy? How are the different types of spectroscopy used in forensic science laboratories?
4. How are human bones differentiated from non-human bones? Which bones can provide the information about the age, height and sex of an individual? How can sex be determined from pelvic girdle?
5. What is Narco-Analysis technique? How it is carried out? Is it admissible in the court of Law?
6. What are characteristic of handwriting? Give brief about natural variations in handwriting. How are different forgeries detected in the documents?
7. What do you understand by the term fake currency? Discuss various methods deployed to distinguish genuine currency from the fake one.
8. Discuss in detail the forensic importance and techniques involved in detection and analysis of any **two** of the following biological fluids:
  - a. Blood
  - b. Semen
  - c. Saliva
9. Write short notes on any **three** of the following:
  - a. Bite marks
  - b. Use of X-Rays in forensic investigation
  - c. Polygraph
  - d. Narco-Analysis
  - e. Cyber crime
  - f. Characteristic of a handwriting
  - g. Commonly abused drugs
  - h. Comparison of fingerprints