

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3493 **I**

Unique Paper Code : 2154001004

Name of the Paper : (Generic): Forensic and Criminal
Investigations

Name of the Course : **B.Sc. (H)**

Semester : I (Part I) November-December
2024 (NEP-UGCF-2022)

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. Discuss the history and development of forensic science. How have they contributed to modern criminal investigations?
2. Discuss the steps involved in crime scene protection, isolation, and documentation. Why is each of these steps crucial for the integrity of the investigation?

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3. What are the principles of internal, external, and terminal ballistics? How do forensic experts analyze ballistic evidence to determine the trajectory and impact of bullets?
4. Explain the classification and extraction methods of poisons in forensic toxicology. How do toxicologists identify poisons at crime scenes?
5. What are the key presumptive, screening, and analytical techniques in forensic chemistry? How are these techniques used to analyse forensic evidence?
6. What are the class and individual characteristics of handwriting? How are these characteristics used to link individuals to documents?
7. Classify the fingerprint patterns found in human populations. Write your answer with suitable diagrams.
8. Describe the methods used for sex determination and age estimation from skeletal remains. How does this aid in identifying individuals?
9. Write short note of **any two** of the following :
 - (a) Control and prevention methods of crime
 - (b) Characteristics of firearms
 - (c) Identification of human bloodstain
 - (d) DNA profiling