

**DIRECTORATE OF DISTANCE EDUCATION
NALSAR UNIVERSITY OF LAW, HYDERABAD**

M.A. (CRIMINAL LAW & FORENSIC SCIENCE)

Academic Year: 2025-2026

**Second Semester Repeat Examination – Online Proctored Examination
(December, 2025)**

1.2.6. Forensic Medicine, Biology & DNA

Duration of the Examination: 2 ½ hours

Total Marks : 70 marks

INSTRUCTIONS TO CANDIDATES

- a) Read the instructions carefully and adhere to the same.
- b) Please mention your Name, DDE ID No., date of the exam, name of the programme, name of the subject, total number of pages on the first page and write the page numbers in sequence on each sheet before upload.
- c) The questions to be interpreted as given and no clarification can be sought.
- d) Clearly indicate the question numbers while answering them. Answers without question numbers / wrong question numbers will not be evaluated.
- e) Write the answers clearly and neatly. Answers in illegible handwriting will not be taken into consideration.
- f) Candidates need to check the scanned and pdf converted file before uploading, whether all pages are scanned properly and the same is in sequence and clearly visible.
- g) Candidates are prohibited to use phones or any other electronic devices, books, material etc. during the Examination.
- h) Copying from any source including from other students is strictly prohibited. Plagiarism is considered as a serious academic mis-conduct and the University will take action as it deems fit.

SECTION – A – Essay (Question No 1 to 4)

(Answer all questions. Answer for each question is to be written in 4 pages 600 words)
4×10 marks =40 marks

1. In a case of suspected sexual assault, the victim's clothing shows suspicious stains. The accused denies any sexual contact. Explain how forensic serology and DNA profiling can be used to confirm or refute the allegation. **(10 Marks)**

2. In a hit-and-run case, the suspect claims innocence, stating he was not the driver. A bloodstained shirt and hair samples are recovered from the vehicle. Discuss the forensic biological methods used to connect or exclude the suspect from the scene. **(10 Marks)**
3. Explain the process and importance of DNA fingerprinting in forensic investigations. Illustrate its use in identifying victims of mass disasters. **(10 Marks)**
4. A skull and a few long bones are recovered from an incident site. Police request assistance to identify the remains. Explain how forensic anthropology can help determine age, sex, and stature from skeletal remains. **(10 Marks)**

SECTION – B – Short notes (Question No 5 to 10)

(Answer all questions. Write a brief note on the following forensic topics in 2 pages 300 words) 6×5 marks=30 marks

5. A child is reported missing. Fingerprint evidence is smudged, but DNA from a toothbrush is available. Explain how DNA profiling can confirm identity. **(5 Marks)**
6. A woman dies suddenly after complaining of chest pain. Discuss how post-mortem findings can help differentiate natural cardiac death from poisoning. **(5 Marks)**
7. A suspect has tattoo marks that appear partially removed. Describe how forensic examination can reveal faded tattoos. **(5 Marks)**
8. In a suspected rape case, semen stains are detected on the victim's clothes. Discuss the confirmatory tests for semen detection. **(5 Marks)**
9. What is Forensic Odontology? Explain the importance of bite mark analysis in criminal cases. **(5 Marks)**
10. A driver involved in a fatal accident is suspected to be intoxicated. What medico-legal tests can confirm alcohol influence and establish liability? **(5 Marks)**