

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

M.A. (Criminal Law & Forensic Science)

Academic Year: 2024-2025

Third Semester Repeat Examination (May, 2025)

2.3.9. DNA Fingerprinting

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 DDE ID No., date of the exam, name of the programme & subject on the Answer Sheet and the Additional Answer Sheets, if any.
 - c) The questions to be interpreted as given and no clarification can be sought from the Invigilator.
 - 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 are prohibited to carry phones or any other electronic devices, books, material etc. in the Examination Hall.
 - g) Copying is strictly prohibited and is considered as a serious academic misconduct and the University will take action as it deems fit.
-

Long Essay Questions

- 1. (a) List the various biological sources of DNA that can be recovered from a: **(15 marks)**
 - i. Murder scene
 - ii. Sexual assault/rape victim
 - iii. Driver swapping in vehicular accidents cases
 - iv. Suicide

(b) What is DNA fingerprinting and how is it used in forensic science? **(10 marks)**
- 2. (a) Describe the steps of the Polymerase Chain Reaction (PCR). How does it amplify DNA? **(10 marks)**

(b) What is "Wildlife Forensics"? Explain briefly. What types of cases/crimes can be solved using Wildlife forensics? **(15 marks)**
- 3. (a) Explain the uses of DNA Phenotyping in Forensic Investigations? **(10 marks)**

(b) Explain the importance of species identification in wildlife forensics? **(10 marks)**