

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

(5 Pages)

Reg. No:

Question Code No: 25001613

Course Code: 24PEMB11

PG Degree - End Semester Examinations, November 2025

First Semester

M.Sc. MICROBIOLOGY

Forensic Science

(For those who joined in July 2024 onwards)

Time : 3 Hours

Maximum : 75 Marks

PART – A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

1. _____ is the study of the presence of toxic substance inside a body and the effect that they had on the individual.
(a) Forensic toxicology (b) Forensic psychology
(c) Forensic podiatry (d) Forensic pathology
2. Forensic entomology involves _____.
(a) Millipedes (b) Centipedes

- (b) Silver Nucleotide Polymorphism
- (c) Single Nucleotide Purine
- (d) Single Nucleotide Pyrimidine

9. Forensic toxicology does not involve

- (a) Analytical chemistry (b) Pharmacology
- (c) Clinical chemistry (d) Immunology

10. Technique used for studying highly volatile compound is

- (a) NMR (b) HPLC
- (c) FTIR (d) GC

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

11. (a) Explain the tools used in forensic science.

(OR)

(b) Enumerate the duties and responsibilities of forensic scientists.

12. (a) Write about forensic microbiology.

(OR)

(b) Portray the organisational setup in forensic department.

13. (a) Mention the importance of blood sample in forensic labs.

(OR)

(b) Why do forensic scientist give more importance for hair samples?

14. (a) How do we isolate DNA from blood?

(OR)

(b) Give an account on RFLP.

15. (a) Comment on Post-mortem

(OR)

(b) How do we classify poison?

PART – C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 600 words.

16. (a) Document the historical events in forensic science.

(OR)

(b) Discuss in detail the diverse branches of forensic science.

17. (a) Explain the need of mobile forensic labs.

(OR)

(b) Document the measures taken by Central / State Government for the growth of Forensic Department in India.

18. (a) Clearly explain the significance of forensic serology.

(OR)

(b) Showcase different types of body fluids used as samples in forensic science.

19. (a) PCR technique is indispensable one in forensic science – Justify the statement.

(OR)

(b) How do we use forensic science in fixing paternity disputes?

20. (a) Explain in detail about the mode of action of poison.

(OR)

(b) Forensic toxicology – is an important branch of Forensic Science – Justify.