

Question Paper

Exam Date & Time: 28-Jul-2025 (10:00 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION - JULY 2025
SUBJECT: MFS 608 - APPLIED FORENSIC CHEMISTRY AND INSTRUMENTATION
(MAKE-UP)

Marks: 50

Duration: 150 mins.

Answer all the questions.

- 1) Compare the working of TEM and SEM using suitable diagrams. Add a note on its forensic applications (10)
- 2) Explain the principle and instrumentation of IR spectroscopy. Name the factors affecting IR spectra. (10)

3. Write short notes on:

- 3A) HPLC (5)
- 3B) Chemistry of Fire (5)
- 3C) DSC (5)
- 3D) PFGE (5)
- 3E) Flame photometry. (5)
- 3F) Ultrafiltration (5)

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