

MSc Sem.-1 Examination

401

Forensic Science

February-2025

[Max. Marks : 70]

Time : 2-30 Hours]

Ques.1 Answer the following questions:

- i. Describe the branches of forensic science and their individual contributions to criminal investigations. 7Marks
- ii. Compare the Frye Case and the Daubert Standard, emphasizing their influence on the admissibility of expert testimony. 7Marks

OR

- i. Discuss the ethical challenges in forensic science and suggest measures to uphold integrity in the field. 7Marks
- ii. Explain the organizational setup of a forensic science laboratory, including its divisions and workflow. 7Marks

Ques.2 Answer the following questions:

- i. Define evidence. Differentiate between direct and circumstantial evidence with suitable examples. 7Marks
- ii. Describe the process of reconstructing a crime scene. Highlight its role in solving criminal cases. 7Marks

OR

- i. Evaluate the significance of physical evidence in criminal investigations and its admissibility in court. 7Marks
- ii. Discuss the significance of crime scene documentation. Explain the method of crime scene sketching. 7Marks

Ques.3 Answer the following questions:

- i. What is Narco analysis? Explain its procedure in detail. 7Marks
- ii. Describe Polygraph with the advantages and disadvantages of the technique. 7Marks

OR

- i. Explain criminal profiling. What are the possible methods used by the profiler? 7Marks
- ii. Explain the concept of brain fingerprinting. Discuss its significance in detecting deception and its advantages over traditional lie detection methods. 7Marks

Ques.4 Answer the following questions:

- i. What is Photogrammetry? Explain the methods of photogrammetry. 7Marks
- ii. Explain in detail the process of crime scene photography. 7Marks

OR

- i. Write a note on Exposure triangle. 7Marks
- ii. Write a note on UV and IR Photography. 7Marks

Ques.5 Attempt any seven out of twelve.

14Marks

1. What is the role of the investigator at a crime scene?
2. List two methods of searching for evidence at a crime scene. Explain in brief.
3. What is meant by the chain of custody?
4. What is the primary principle of forensic science?
5. Define testimonial evidence.
6. What precaution should be taken when collecting firearms as evidence?
7. Define: insanity.
8. In _____ delusion, a person believes that he is ill or is convinced that something wrong is happening with his body, though the person is healthy.
9. Define impulse. Explain various types of impulse.
10. Explain focal length in camera optics.
11. What is the full form of ISO with respect to photography?
12. Explain Wide angle lens.
