

MSc Sem.-2 Examination

408

Forensic Science

May-2025

[Max. Marks : 70]

Time : 2-30 Hours]

Instructions: Illustrate your answers with neat diagrams wherever necessary.

Que 1 Write the following.

- (i) What are the fundamental principles and analytical techniques involved in (7 Marks) verifying the authenticity of handwriting in forensic examinations?
- (ii) What are the steps followed in obtaining standard, admitted, or specimen (7 Marks) handwriting samples for comparative analysis in forensic document examination?

OR

- (i) How does the concept of handwriting individuality contribute to the accuracy and (7 Marks) reliability of forensic handwriting analysis?
- (ii) How are documents categorized in forensic analysis, and why is their (7 Marks) classification important in relation to their source and characteristics?

Que 2 Write the following.

- (i) What are the distinguishing features of authentic versus forged signatures in (7 Marks) forensic document analysis, and what challenges are encountered in differentiating between them?
- (ii) What methods are used in forensic document analysis to reveal hidden, (7 Marks) indented, or charred writing on documents?

OR

- (i) What is the procedure for detecting and analyzing alterations, erasures, (7 Marks) overwriting, additions, and obliterations in documents, and which tools and techniques are commonly employed in forensic examinations to uncover such modifications?
- (ii) How can you determine the age of the document based on paper, Explain in detail. (7 Marks)

Que 3 Write the following.

- (i) Explain the process and characteristics of simulated forgery. How can such forgery be (7 Marks) detected?
- (ii) Compare and contrast typebar, typeball, and daisy wheel typewriters in terms of design (7 Marks) and operation.

OR

- (i) Describe the differences between hand-engraved blocks and hand-drawn forgery (7 Marks) methods in counterfeiting. How can forensic experts distinguish these forgeries?
- (ii) Outline the steps involved in the physical and forensic examination of built-up (7 Marks) documents. How do these steps ensure the authenticity of a document?

Que 4 Write the following.

- (i) How can you determine the age of the document on the basis of ink examination? (7 Marks) Discuss in detail.

- (ii) What are PICA and ELITE typewriters? Compare their features and explain how these differences assist in typewriter identification. (7 Marks)

OR

- (i) Describe the significance of fixed vertical and horizontal spacing in typewriters. How does this characteristic aid forensic experts in identifying typewritten matter? (7 Marks)
- (ii) Write a note on Photography of Questioned document. (7 Marks)

Que 5 Attempt any seven out of twelve. (14Marks)

- (i) What is the purpose of comparing standard documents with questioned documents?
- (ii) What is the significance of the concept of individuality in handwriting analysis?
- (iii) How does the examination of pen pressure help in identifying forged signatures?
- (iv) How does the size, slant, and flow of a signature assist in identifying forgeries?
- (v) What is difference between overwriting and obliterations?
- (vi) Explain in brief about Natural variations.
- (vii) Define Forensic stylistics.
- (viii) What is forgery by impersonation?
- (ix) What are two methods used to demonstrate traced forgery?
- (x) What are overt features in the context of currency security? Provide an example.
- (xi) Describe the role of the drum in a photocopy machine's operation.
- (xii) What are transitory defects in typewriters, and how do they affect the printed characters?
