

## MSc Sem.-2 Examination

407

## Forensic Science

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

**Instructions:** Illustrate your answers with neat diagrams wherever necessary.

**Que 1 Write the following.**

- (i) Explain in detail about taking Rolled and Plain fingerprints. (7 Marks)
- (ii) Discuss the History and Development of Fingerprints. (7 Marks)

**OR**

- (i) What are the fixed Points? Explain the conditions of Fixed points with proper figures. (7 Marks)
- (ii) Describe the classification of Fingerprint Patterns with figures. (7 Marks)

**Que 2 Write the following.**

- (i) What is Ridge Counting and Ridge Tracing? Explain with classification and figures. (7 Marks)
- (ii) Write down Henry's 10-digit classification for webbed and missing fingers, with all the steps of classification, and perform the primary classification for the given 10-digit slip. (7 Marks)

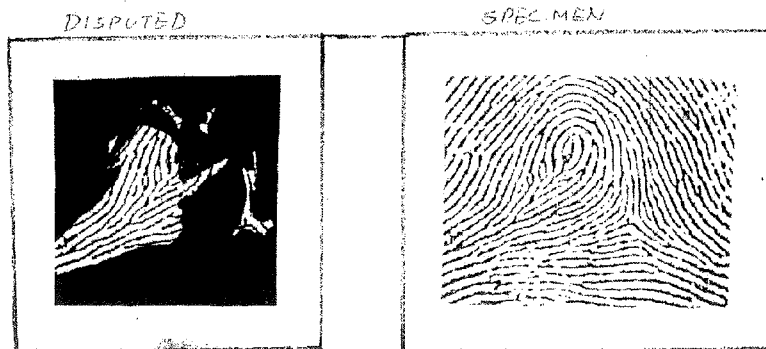
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**OR**

- (i) Discuss in detail Henry's 10-digit classification. (7 Marks)
- (ii) Write a detailed note on "AFIS". (7 Marks)

**Que 3 Write the following.**

- (i) Write down the detailed examination process of the disputed print with the specimen print to form an opinion and form an opinion for the given Disputed and Specimen Prints. (7 Marks)



- (ii) Write a detailed note on Chemical and Fuming methods for the development of (7 Marks) chance print.

OR

- (i) What are Minutiae? Explain the types of Minutiae with figures. (7 Marks)
- (ii) Discuss the classification of chance print and the Powder method for developing (7 Marks) chance print.

**Que 4 Write the following.**

- (i) In a jewellery store burglary, distinct tool marks were observed and lock were (7 Marks) analysed to see type of tool used. Explain in details different types of tool marks, collection and preservation and the method of examination made to determine a forensic match.
- (ii) In a sexual assault investigation, investigators found a bite mark on the victim's (7 Marks) shoulder and a smudged lip print on her clothing. As a forensic expert, explain how you analyze and interpret these types of evidence to help identify the assailant.

OR

- (i) An individual, while walking or running makes a series of impressions or (7 Marks) footprints, this is called a gait pattern. Describe its significance, classification and analysis of gait pattern with diagram. How are they important in forensic science.
- (ii) At the scene of a hit-and-run accident, investigators discovered a set of tire and (7 Marks) tread marks leading away from the victim. Justify different types of tire marks and skid marks. As a forensic expert, explain how you would examine and compare these marks.

**Que 5 Attempt any seven out of twelve.**

(14Marks)

- (i) Define: 1. Fingerprint  
2. Central Pocket Loop
- (ii) Write down the principles of Fingerprint.
- (iii) Define: 1. Whorl  
2. Tented Arch
- (iv) Draw the valued and unvalued pattern sign in 10 digits against the primary classification.

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- (v) Define: 1. Outer Whorl  
2. Inner Loop

- (vi) The First Fingerprint Bureau of the world was established at \_\_\_\_\_ in the year of \_\_\_\_\_.
- (vii) What are the factors affecting the duration of latent prints on a surface?
- (viii) What is AFIS?
- (ix) Define: 1. Cross-over  
2. Enclosure
- (x) Give formula to calculate skid speed.
- (xi) Which chemical method is used to restore numbers on steel surface?
- (xii) Define Cheiloscopy. Who is called father of cheiloscopy?

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