

Roll No.

Total Pages : 3

CMDQ/M-24

5613

FORENSIC DACTYLOGRAPHY AND OTHER IMPRESSIONS

Paper–M–FSC–402

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Explain the following : 8×2=16
 - (a) Two dimensional and three-dimensional footwear impression.
 - (b) Define whorl and twine loop patterns.
 - (c) Contribution of Sir Francis Galton to Fingerprint Science.
 - (d) Define five minutes of Fingerprints.
 - (e) Differentiate between latent and patent Fingerprints.
 - (f) Fingerprint Bureau
 - (g) Fundamental principles of Fingerprints.
 - (h) Constituents of Sweats.

5613/K/368/50

P. T. O.

UNIT–I

2. Write a detailed account of the following : 10,6
 - (a) Morphology of Friction Ridge Skin.
 - (b) Types of Fingerprint patterns.
3. Write a detailed account of the following : 10,6
 - (a) Causes and genetics of Variations in Fingerprints.
 - (b) Single-digit Fingerprint classification.

UNIT–II

4. Give a detailed explanation of the basis of Fingerprint deposition on different surfaces and elaborate methods for enhancing latent prints on non-porous surfaces. 16
5. Describe the Chemistry and uses of Superglue, physical developers and ninhydrin to Visualize the latent imprints. 16

UNIT–III

6. Give a detailed account on the following :
 - (a) Different methods of Fingerprints recording for comparison. 8
 - (b) Ridge characteristics use for comparison of Fingerprints. 8

5613/K/368/50

2

7. Give a detailed account on the following :
- (a) Use of digital Image processing in Fingerprints analysis. 8
 - (b) Presentation of Expert evidence on Finger in court. 8

UNIT-IV

8. Give a detailed explanation on the following :
- (a) Class and Individual characteristics. 8
 - (b) Collection of preservation three dimensional footprints. 8
9. Give a detailed account of the following :
- (a) Comparison method of Tire marks. 8
 - (b) Characteristics of Lip prints. 8