

(44)

**SARDAR PATEL UNIVERSITY****M. Sc. (Forensic Science) – Second Semester Examination (CBCS)****Monday, 9<sup>th</sup> April, 2018****10:00 a.m. to 1:00 p.m.****PS02CFSC21: DNA Fingerprints and Laws (Criminal Justice System)****Total Marks: 70**

Note: (1) Figures to the right indicate marks.

(2) Draw a neat and labeled diagram, wherever necessary.

**Q. 1 Choose the most appropriate answer from the four alternatives given: [08]**

i. Who is the first to definitely use fingerprints for identification purposes, while working for the East India company?

- a) Henry Faulds    b) Edmond Locard    c) Sir Willium Herschal    d) Mathieu Orfila

ii. A method for studying the fingerprints to establish identity is called \_\_\_\_\_.

- a) Dermatoglyphics    b) Dactyloscopy    c) Dactylography    d) Dermatology

iii. \_\_\_\_\_ is a central point of fingerprint pattern.

- a) Ridge    b) Creases    c) Core    d) Delta

iv. The buglers visiting card is also known as \_\_\_\_\_.

- (a) Latent print    b) Chance print    c) Foot print    d) Lip print

v. Section 159 Indian evidence act stands for \_\_\_\_\_.

- a) Cross examination    b) Reexamination    c) Refreshing memory    d) Examination in chief

vi. All loops with ridge count between 1- 6 are taken as \_\_\_\_\_ in Henry classification.

- a) I    b) M    c) O    d) Y

vii. The punishment for dowry death is \_\_\_\_\_ years.

- a) 1    b) 7    c) 8    d) 14

viii. Match the following developer with target / property.

- |                   |                |
|-------------------|----------------|
| A. Laser          | 1. Salts       |
| B. Ninhydrin      | 2. Oils/Fats   |
| C. Silver nitrate | 3. Fluroscence |
| D. Iodine         | 4. Aminoacids  |

A	B	C	D
---	---	---	---

- |     |   |   |   |   |
|-----|---|---|---|---|
| (a) | 2 | 3 | 4 | 1 |
| (b) | 3 | 4 | 1 | 2 |
| (c) | 4 | 1 | 2 | 3 |
| (d) | 1 | 2 | 3 | 4 |

**P.T.O.**

**Q.2 Answer any SEVEN from the following:**

[14]

- i. Define radial loop and ulnar loop.
- ii. What are the proportions of whorl, loop and arch in the populations?
- iii. Define the terms edgioscopy and poroscopy.
- iv. Differentiate between ridge tracing and ridge counting.
- v. What are ridges? Write its importance.
- vi. Explain fingerprint classification of missing and damaged fingers.
- vii. Define grievous hurt.
- viii. Write a short note on explosive act.
- ix. Enlist various types of fingerprint powders.

**Q.3(a) Discuss history and development of fingerprints in India.**

[6]

(b) Draw the structure of skin and explain role of creases.

[6]

**OR**

(b) Describe composition of sweat.

[6]

**Q.4(a) Write the various types of fingerprint patterns in detail.**

[6]

(b) Discuss various types of ridge characteristics.

[6]

**OR**

(b) Explain Iodine fuming and ninhydrin methods for the development of fingerprints.

[6]

**Q.5(a) Describe Henery's system of classification.**

[6]

(b) Give a detailed account of fingerprint bureau.

[6]

**OR**

(b) Discuss Automated Fingerprint Identification System.

[6]

**Q.6(a) Explain the section numbers 291, 292 and 293 of criminal procedure code.**

[6]

(b) Explain the concept of kidnapping in detail.

[6]

**OR**

(b) Give an overview of wildlife protection act and environment protection act.

[6]

\*\*\*\*\*