

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID SEMESTER INTERNAL EXAMINATION, SEPTEMBER 2018
B. Sc. Semester III
Subject: Forensic Science

Paper Code: 11107201

Title of the paper: Dermatoglyphics

Date: 05/09/2018

Time: 9:30 to 11:00 AM

Maximum Marks: 40

Instructions:

1. All questions are compulsory, and options are given in first and second question only.
 2. Numbers to the right of question indicate the marks of respective question.
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Q. 1 Attempt any one question of the following. (08)

- (i) Write a brief on Fingerprint classification with respect to types of Patterns.
- (ii) What AFIS stand for? Write a short note on function and significance of it.

Q. 2 Attempt any three questions of the following. (12)

- (i) Identify each fingerprint based on its classification.



- (ii) Write a brief on Galton remarks.
- (iii) Write a note on biological formation of fingerprints.
- (iv) What is chance print? How many types of fingerprints could find at crime scene?

Q. 3 Do as directed. Attempt all five questions. (05)

- (i) When human being starts acquiring fingerprint?
- (ii) What is a Plastic fingerprint?
- (iii) What is Bifurcation?
- (iv) What will be pattern combination in the ring fingers of the fingerprint slip whose primary classification is 1/31?
- (v) What reacts with amino acid to produce purple reaction product?

Q. 4 Write correct option in your answer sheet for following 15 multiple choice questions. (15)

- 1 Which of these is a name given to the examination of fingerprints?
(A) Trichology (B) Entomology
(C) Dactyloscopy (D) Palynology
- 2 Which of the following is NOT one of the three basic types of fingerprint patterns?
(A) Spiral (B) Arch
(C) Loop (D) Whorl
- 3 At what age do human beings acquire fingerprints?
(A) At birth (B) At six month's gestation
(C) At two weeks of age (D) At three month's gestation
- 4 Who is generally recognized as being the first person to use fingerprints as a means of identification?
(A) Sir William Herschel (B) Dr Henry Faulds
(C) Alphonse Bertillon (D) Sir Edward Henry
- 5 What are the deltas in a Central pocket whole located?
(A) No deltas (B) 2 deltas, located equidistant to the core
(C) 1 delta is much closer to the core than the other delta (D) There is only one delta that is right next to the core
- 6 The most common Ridge pattern is the:
(A) Arch (B) Whorl
(C) Loop (D) Composite
- 7 Which of the following types of fingerprints are more likely to be found impressed in soft wax?
(A) Visible (B) Latent
(C) Hidden (D) Plastic
- 8 Under which circumstances have two people been found to have identical fingerprint?
(A) Identical twins (B) Fraternal twin
(C) Members of the same immediate family (D) None to date

- 9 Who first suggested the use of fingerprints to identify criminals and published book titles "Fingerprints"?
- (A) Mathew Orfila (B) Henry Fauld
(C) Edmond Locard (D) Sir J. J. Thomson
- 10 Fingerprints can permanently remove with-
- (A) Chemicals (B) Injuries
(C) Both (a) and (b) (D) None of above
- 11 Most of the Finger impressions at the scene result from-
- (A) Tip of the finger (B) Palm of the hand
(C) Hairy part of the body (D) Toes of the feet
- 12 The triangular ridge is called-
- (A) An Island (B) A Core
(C) An Arch (D) A Delta
- 13 Latent fingerprints on a knife with ivory handle can be developed by using-
- (A) Black powder (B) Gray powder
(C) Aluminum powder (D) Anthracene powder
- 14 What is common method for detecting latent print is-
- (A) Tape (B) Powder
(C) Water (D) All of the above
- 15 The fingerprint left by a person with soiled or stained fingerprint is called-
- (A) Latent print (B) Visible prints
(C) Plastic prints (D) None of the above

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