

**PARUL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**M.Sc., Winter 2018-19 Examination**

Semester: 1

Date: 07/12/2018

Subject Code: 11207104

Time: 10:30am to 01:00pm

Subject Name: Forensic Dermatoglyphics and impressions

Total Marks: 60

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Brief note (08)**  
 What is Impression evidence? Write a note on classification of Fingerprint patterns.
- Q.1. B) Answer the following questions (Any two) (04)**  
 (a) Brief note (2x2)/ Schematically labels the figures (2x2) (Each of 02 marks) (04)  
 1. Draw the patterns: i) Lateral Pocket Loop, ii) Almond Whorl, iii) Tented Arch, iv) Twinned Loop  
 2. What is chance print? Explain their types.  
 (b) What are the methods for latent Fingerprint development, lifting and preservation? (08)
- Q.2. A) Answer the following questions. (04)**  
 (a) Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)  
 1. Write on applications of laser to develop latent fingerprint.  
 2. What is latent print? Write a composition.  
 (b) What is the full form of AFIS? Write on its working methods in detail. (04)
- Q.2. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. Which chemical treatment produces a purplish pink – appearing latent print?  
 (A) Super glue (B) Iodine  
 (C) Ninhydrin (D) Silver nitrate  
 2. Index finger is also known as\_\_\_\_\_  
 3. A small ridge characteristic on a fingerprint are called-  
 (b) Write a short note on preservation and lifting of fingerprints from death person. (03)  
 (c) Write a short note on 3D face recognition. (03)
- Q.3. A) Brief note (4x2) (Each of 04 marks) (08)**  
 (a) Write a note on Hennery's classification system.
- Q.3. B) Answer the following questions (Any two) (04)**  
 (a) Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)  
 1. Labeled diagram of anatomy of Skin layers.  
 2. What are the methods for collection of control samples? Write for Lip prints and its forensic significance.  
 (b) Write a note on casting of Footprints from different Surfaces. (04)  
 (c) Write a note on forensic significance of tyre marks. (04)
- Q.4. A) Answer the following questions. (04)**  
 (a) Write a note on Gait pattern analysis. (04)  
 (b) Write a brief on individual ridge characteristics. (04)
- Q.4. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. The angle between two-foot line is called\_\_\_\_\_  
 2. Which method is used for lifting the 2D soiled footprint impression?  
 3. The study of Lip prints is also known as\_\_\_\_\_  
 (b) Write in detail: Classification, lifting and comparison of Lip prints. (03)  
 (c) Write a note ear print and their forensic significance. (03)