

**M.Sc Sem.-2 Examination**

**P - 407**

**Forensic Science**

**June 2022**

**Time : 2-00 Hours]**

**[Max. Marks : 50**

**Que. 1 Answer any six from the following questions in detail: (7 marks each) [42 marks]**

1. Write down the fundamental principles of fingerprint science and the definition of "pattern".
2. Describe ridge counting and ridge tracing procedures in detail.
3. What is Delta and Core? Explain with figures.
4. Write the chronological procedure follow to compare two fingerprints.
5. Explain the Primary and Secondary fingerprint classification given by Sir E.R. Henry.
6. Why do we collect Plain prints along with the rolled prints in the finger impression slip?
7. Explain chemical methods used to develop chance prints at the scene of a crime.
8. Define and explain a chemical method for restoration of the erased number on the surface of steel metal.
9. Explain in detail the different types of characteristics of tools.
10. Explain the procedure of identification, collection, and preservation of fingerprints on the scene of the crime.
11. What are tire marks? Explain different types of tire marks in detail.
12. Explain forensic examination of the gait pattern.

**Que. 2 Answer any eight from the following questions: (1 mark each) [8 marks]**

1. Who classified fingerprints as Arch, Whorl, and Loop?
2. Whorls are known as ..... patterns. (valued/unvalued)
3. Pattern without fixed points is known as.....
4. The study of pores in fingerprints is known as .....
5. Draw the primary Henry classification

Missing	9	10	11	12
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Missing	11	12	13	14
	/	/	/	/

6. Draw the valued and unvalued pattern sign in 10 digit against primary classification.

<b>32</b>					
<b>28</b>					

7. Draw the full Henry classification

20	9	10	M	4
\	\	\	W	\
15	7	14	M	12
/	/	/	W	/

8. How many pigeon holes are there in the primary classification in total?
9. Name one non-destructive method of restoration of erased marks.
10. Name three etching reagents.
11. Define tracing.
12. What is a skid mark?
13. Which collection method is used most commonly for bite marks?
14. Name two Indian Police personnel who contributed in 10 digits to Henry's classification adopted worldwide.