

C 42002

(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2023  
(CBCSS)**

Forensic Science

FSC 4E 27—MODERN TRENDS IN FINGERPRINT SCIENCE

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Section A**

*Answer any four questions.  
Each question carries 2 weightage.*

1. When do fingerprints start developing in humans ?
2. What are the types of chance prints ?
3. Write about Iodine Fixation.
4. What is the post treatment procedure of cyanoacrylate fuming method ?
5. Comment on the uses of radioactive techniques and biological techniques ?
6. Give the nature of Aptamer.
7. What do you mean by 'ten print to ten print' searches ?

(4 × 2 = 8 weightage)

**Section B**

*Answer any four questions.  
Each question carries 3 weightage.*

8. Throw light on the anatomy of friction ridge skin.
9. What are the principles of fingerprint science ?
10. What is the meaning of 'soot' method ?
11. Write about the Iodine fuming method of fingerprint development.

**Turn over**

12. Name the Amino acid and protein reagents and explain its uses ?
13. Write a note on Zinc oxide nanoparticles.
14. What are Fingerprint enhancement tools ?

(4 × 3 = 12 weightage)

### Section C

*Answer any two questions.*

*Each question carries 5 weightage.*

15. Elaborate on the powder suspension technique.
16. Write down the details of post mortem fingerprint techniques.
17. Write a note on silver nanoparticles.
18. What are the different features of AFIS ?

(2 × 5 = 10 weightage)