



DCFS – 402

Fourth Semester B.Sc. Degree Examination, September/October 2023

(NEP – Freshers)

CRIMINOLOGY AND FORENSIC SCIENCE

Advanced Forensic Biology

Time : 2½ Hours

Max. Marks : 60

PART – A

Answer any 6 questions. Each question carries 1 mark. **(1×6=6)**

1. What is blood stain drying time ?
2. Define impact blood pattern.
3. Expand WBC and RBC.
4. Define crime scene reconstruction.
5. Define Takayama test.
6. Define fixative.
7. Define saliva.
8. Define Aloin test.

PART – B

Answer any 6 questions. Each question carries 2 marks. **(2×6=12)**

9. What are the 5 isoenzymes found in blood ?
10. What is alopecia and hirsutism ?
11. Explain scale examination of hair.
12. Explain physical properties of blood.
13. What is Aminocentesis and Chronic Villus Sampling ?

P.T.O.

DCFS – 402



14. What is blood smear ?
15. Explain animal hair.
16. What is hemoglobin and hemopoiesis ?

PART – C

Answer **any 3** questions. **Each** question carries **4** marks.

(4×3=12)

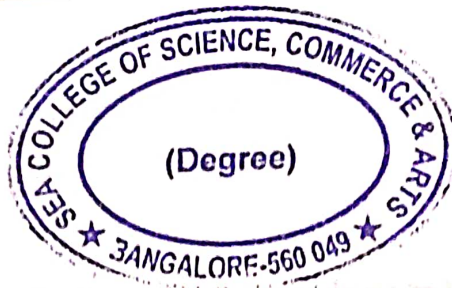
17. Explain confirmatory test for blood.
18. Explain about the examination of semen.
19. Explain classification of blood patterns.
20. Explain convergence and point of origin.

PART – D

Answer **any 5** questions. **Each** question carries **6** marks.

(6×5=30)

21. Explain Forensically relevant enzymes and examination of faeces.
 22. Explain presumptive and confirmatory test for blood.
 23. Explain documentation of blood patterns and classification of blood patterns.
 24. Explain general morphology of diatoms and its significance in drowning case.
 25. Explain about botanical evidence and its transfer.
 26. Explain crime scene reconstruction and its significance.
 27. Explain race determination and growth cycle of hair.
-



DCFS – 401

Fourth Semester B.Sc. Degree Examination, September/October 2023

(NEP – Freshers)

CRIMINOLOGY AND FORENSIC SCIENCE

Questioned Documents

Time : 2½ Hours

Max. Marks : 60

PART – A

Answer any 6 questions. Each question carries 1 mark.

(6×1=6)

1. Explain Section 3 of IEA.
2. What is gooping ?
3. Name the components present in VSC.
4. Name the different types of traced forgery.
5. Name the disease that affect handwriting.
6. Name any four basic tools used for the examination of questioned document in forensic science.
7. Define counterfeit currency notes.

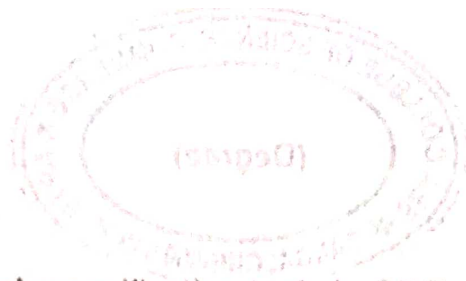
PART – B

Answer any 6 questions. Each question carries 2 marks.

(6×2=12)

8. Name the instrument used to detect the miniature writing.
9. Differentiate class characteristics and individual characteristic in handwriting.
10. Define Section 46A of IEA.
11. Explain the advantage of intaglio printing.
12. Differentiate disguised writing and distorted writing.

P.T.O.



13. Explain the application of magnification tools in QDE.
14. Explain the significance of handwriting analysis.
15. Explain the role of pen pressure in QD.

PART – C

Answer any 3 questions. Each question carries 4 marks.

(3×4=12)

16. "The writing habit derives its individuality and development from operation of the influences of mental motion and muscular formation of hands and fingers". Justify the comment.
17. Explain the handling of water soaked handwriting.
18. Explain the examination of printed document.
19. Explain the application of UV light and IR light in QD examination.

PART – D

Answer any 5 questions. Each question carries 6 marks.

(5×6=30)

20. Define charred document. Explain the collection, preservation and decipherment of charred document.
21. Describe the effect of circumstantial factors on handwriting of a person.
22. Name the instrument used to analyse impression in paper. Explain its components, working and application in QDE.
23. State the techniques used in analysis of questioned document.
24. Describe various general characteristics of handwriting. How every person has individual handwriting ?
25. Elaborate various standards required for comparison of handwriting.
26. Explain the examination of Indian Currency notes.