

AT – 291

First Semester B. Sc. (Part – I) Examination

1 S – FORENSIC SCIENCE

(Basics of Forensic Science)

P. Pages : 8

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions are compulsory.
(2) Question No. **One** carries **Eight** marks while each of remaining questions carry **Twelve** marks.
(3) Draw diagrams and write equations wherever necessary.

1. (A) Fill in the blanks :—

- (i) _____ is known as Father of Ballistics.
(ii) Anthropometric measurements was given by _____.
(iii) Examination of blood performed under _____ division of FSL.
(iv) Study of fingerprint is known as _____.

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P.T.O.

(B) Multiple choice questions :

- (i) ESDA stands for —
 - (a) Electrostatic detection apparatus.
 - (b) Electrostatic differential apparatus.
 - (c) Electroseptic detection apparatus.
 - (d) Electroseptic differential apparatus.

- (ii) Postmortem staining is also known as —
 - (a) Algor mortis
 - (b) Liver mortis
 - (c) Rigor mortis
 - (d) Atria mortis

- (iii) Carbon Paper forgery is an example of —
 - (a) Simulated forgery
 - (b) Traced forgery
 - (c) Forgery without keeping model
 - (d) Forgery by freehand

- (iv) Triangulation is a type of —
 - (a) Photography
 - (b) Sketching
 - (c) Videography
 - (d) Note Taking

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(C) Answer in **One** sentence :—

(i) What is Crime scene ?

(ii) What is examination in chief ?

(iii) Define Voyeurism.

(iv) What is document ? 4

UNIT I

2. (A) Explain the following laws :

(i) Principle of exchange.

(ii) Law of analysis.

(iii) Law of individuality. 6

(B) Explain historical development in forensic science. 4

(C) What do you mean by investigating officer ? 2

OR

3. (P) Explain scope of forensic science in India. 4

- (Q) Explain the following terms :—
- (i) Victim.
 - (ii) Suspect.
 - (iii) Witness.
 - (iv) Expert witness. 4
- (R) What is Forensic Science ? Discuss the ethical issues in forensic science. 4

UNIT II

4. (A) Explain following divisions in FSL :
- (i) Ballistics.
 - (ii) Serology.
 - (iii) Chemistry. 6
- (B) Explain documentation for blood stain pattern analysis. 4
- (C) Discuss interpretation of blood stain on clothing and footwear. 2

OR

5. (P) Give detail account on GEQD and state FSL in India. 5

- (Q) Explain size, shape and directionality of blood stain. 4
- (R) Discuss history of blood stain pattern interpretation. 3

UNIT III

6. (A) Explain different theories of criminal behaviour. 4
- (B) What are components of crime scene management ? 4
- (C) Explain role of crime scene managers. 4

OR

7. (P) Discuss classical and Neo-Classical theories of criminal behaviour. 4
- (Q) What are the stages of crime scene reconstruction ? 4
- (R) Explain following terms :—
- (i) Information Management.
 - (ii) Manpower Management.
 - (iii) Technology Management.
 - (iv) Logistic Management. 4

UNIT IV

8. (A) Discuss the Physical and Chemical methods of development of fingerprint. 4
- (B) Write in brief on tyre marks and skid marks. 4
- (C) What is lip print ? Give its classification and explain forensic significance. 4

OR

9. (P) Give detail account on bitemark. 4
- (Q) What is earprint ? Explain collection and evaluation procedure of earprint found at crime scene. 4
- (R) Explain types of fingerprint. 4

UNIT V

10. (A) Explain the following :—
- (i) ESDA. 4
- (ii) VSC. 4
- (B) What is questioned document ? What are the types of forensic documents ? 4

- (C) Explain class and individual characteristics of handwriting. 4

OR

11. (P) What is Forgery ? Explain types of Forgery. 4
- (Q) What is disguised writing ? Write the role of forensic document examiner. 4
- (R) Explain the following :—
- (i) Erasure.
- (ii) Secret writing. 4

UNIT VI

12. (A) Explain legal procedure in India. 4
- (B) Discuss the early signs of death. 4
- (C) Explain the following :—
- (i) Putrefaction.
- (ii) Electrocution. 4

OR

13. (P) Explain the following :—

(i) Sodomy.

(ii) Bestiality.

(iii) Transvestism.

(iv) Necrophilia. 4

(Q) What is drowning ? Explain its types. 4

(R) What is hanging ? What are different types of hanging ? 4

