

# **BLDE (DEEMED TO BE UNIVERSITY)**

## **B.Sc. in Forensic Science**

**[Time: 3 Hours]**

**[Max. Marks: 80]**

### **III SEMESTER**

#### **PAPER - I (Forensic Serology)**

**QP CODE: 8355**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Describe in detail collection, evaluation and tests for identification of semen

#### **Short Essays: (Any - 8)**

**5 X 8 = 40 Marks**

2. Antigens and antibodies
3. Difference between human and non-human blood
4. Morphology of spermatozoa with a neat label diagram
5. Composition and functions of urine
6. Forensic significance of sweat
7. ABO blood groups
8. Sexual assault investigations
9. Bloodstain characteristics
10. Bloodstain drying times

#### **Short Answers: (Any - 10)**

**3 X 10 = 30 Marks**

11. Name three antibodies
12. Difference between sweat and Saliva
13. Three forensic significance of semen
14. Name three tests to identify semen
15. Three constituents of milk
16. Test to identify saliva
17. Three extracellular proteins
18. Three cellular antigens
19. Importance of cast off blood trails
20. Importance of point of convergence from blood stain patterns
21. Correlation between impact angle and shape of bloodstain

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### **III SEMESTER**

#### **PAPER - II (Forensic Dermatoglyphics)**

**QP CODE: 8356**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Describe in detail the detection and development of latent fingerprints using light sources and chemical reagents.

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain the history and development of fingerprinting in India.
3. Write about plain and rolled fingerprints with suitable diagrams.
4. Explain the classification and cataloguing of fingerprint records.
5. Discuss the Automated Fingerprint Identification System (AFIS) and its use.
6. Explain poroscopy and its application in fingerprint identification.
7. Describe the steps for developing fingerprints on gloves.
8. Explain preservation of fingerprints on different surfaces.
9. Discuss the importance of palm prints in criminal identification.
10. Explain lip print examination – collection, location, and importance.

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define latent fingerprint.
12. Mention three factors affecting ridge formation.
13. List three types of ridge characteristics (minutiae).
14. Write three advantages of AFIS.
15. Name three chemical reagents used in fingerprint development.
16. Mention three light sources used for detecting fingerprints.
17. List three methods to preserve developed fingerprints.
18. Give three features of poroscopy.
19. Mention three uses of footprints in crime scene investigation.
20. List three features of ear prints.
21. Mention three types of impressions studied in forensic dermatoglyphics.

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## **B.Sc. in Forensic Science**

**[Time: 3 Hours]**

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### **III SEMESTER**

#### **PAPER - III (Criminal Law)**

**QP CODE: 8357**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Define criminal law and explain in detail the components and objectives of criminal law.

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain the importance of criminal law in maintaining social order.
3. Write a short note on the hierarchy and functions of criminal courts in India.
4. Explain the difference between cognizable and non-cognizable offences with examples.
5. Describe the powers and functions of the Chief Judicial Magistrate.
6. Write about sections 307, 309, and 326 of the Indian Penal Code.
7. Explain the role and duties of an expert witness under the Indian Evidence Act.
8. Discuss Articles 21 and 22 of the Constitution of India.
9. Write short notes on The Arms Act, 1959 and its importance.
10. Describe the features and objectives of the Environment Protection Act, 1986.

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Write the meaning of criminal law.
12. Mention three essential elements of a crime.
13. Define bailable and non-bailable offences.
14. Explain summary trial in brief.
15. Write about Section 304A of IPC.
16. What is cross-examination?
17. Define Section 293 of the Criminal Procedure Code.
18. List any three functions of a public prosecutor.
19. State three objectives of The Dowry Prohibition Act, 1961.
20. Write about Article 51A of the Constitution.
21. State the importance of the Prevention of Food Adulteration Act, 1954.