

June - 2023

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Forensic Science**

[Time: 3 Hours]

[Max. Marks: 80]

**V SEMESTER**

**PAPER - I (Forensic Ballistics)**

**QP CODE: 8555**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Explain in detail on determination of Range of fire and time of fire

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Rifled Cartridge.
3. Shotgun firearm
4. Terminal ballistics
5. Ricochet and its effects
6. Barrel time and its effect on internal ballistics
7. Extractor and ejector marks
8. Identification of wads and pellets fired from country made firearms
9. Analysis of gunshot residues on clothes
10. Identification of firearm injuries

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. lock time
12. Effects of corrosion on internal ballistics
13. Yawning of bullet.
14. Stopping power
15. Composition of black gun powder
16. Chamber marks
17. Neutron activation analysis
18. Close range wounds
19. Dermal nitrate test.
20. Suicide and firearm injuries
21. Ricochet bullet

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## B.Sc. in Forensic Science

[Time: 3 Hours]

[Max. Marks: 80]

### V SEMESTER

### PAPER - II (Discipline Specific I)

QP CODE: 8556

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

### Long Questions

10X1 = 10 Marks

1. What is Forensic Entomology? Describe in detail.

### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Botanical Evidences in Forensics investigation.
3. Write in detail about microscopic examination of Diatoms.
4. Insects of forensic importance
5. Comparison between human & animal hair.
6. Physical evidence pertaining to wildlife.
7. Write in detail about Forensic entomology.
8. Illegal trading in wildlife items.
9. Write in detail about microbial organisms of forensic significance.
10. Write in detail about Fundamentals of wild life forensics.

### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Diatoms
12. Draw neat diagram of human hair
13. Pollens
14. Bite mark
15. Collecting biological evidence
16. Define Forensic biology.
17. Botanical evidence.
18. Biochemistry of human hair
19. Pug marks.
20. Fundamentals of wildlife.
21. Chain of custody.

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## B.Sc. in Forensic Science

[Max. Marks: 80]

[Time: 3 Hours]

### V SEMESTER

### PAPER - III (Discipline Specific II)

QP CODE: 8557

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

### Long Questions

10X1 = 10 Marks

1. Prepare an imaginary report on a major road accident.

### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Injury to pedestrians.
3. Photography of accident site.
4. Securing the accident site.
5. Seat belt injuries.
6. Whiplash injuries.
7. Tyre marks.
8. Skid marks.
9. Air bags.
10. Scuff marks.

### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Accuracy of speed record.
12. Railway accidents.
13. Post-crash movement.
14. Hit and run investigations.
15. Trace evidences at accident site
16. Biomechanics of injuries.
17. Most common type of injuries in accident.
18. Collision model.
19. Occupant's kinematics.
20. Visibility conditions.
21. Reasons for accidents.