

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Forensic Science

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - I (Forensic Chemistry)

QP CODE: 8455

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define forensic chemistry? Describe Comparison of petroleum products

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe fractionation of petroleum
3. Write short note on commercial uses different petroleum products
4. Explain Analysis of petroleum products
5. How to locate of point of ignition in arson
6. Recognition of type of fire incident
7. Discuss smoke as forensic evidence
8. Synthesis and characteristics of RDX
9. Write about bomb scene management
10. Explain blast injuries

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Types of evidence involved in forensic chemistry
12. Define distillation of petroleum
13. Comparison of kerosene and petrol
14. Define adulteration in kerosene and diesel
15. Smoke staining analysis
16. What is post-flashover burning
17. Explain blasting agents
18. Explain PETN (pentaerythritol tetranitrate)
19. Write about blast waves
20. Mechanism of explosion
21. Post blast residue analysis

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IV SEMESTER

PAPER - II (Forensic Biology)

QP CODE: 8456

Your answer should be specific to the questions asked.

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Long Questions

10X1 = 10 Marks

1. Write importance of forensic biology? Write in detail hair evidence

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write significance of body fluids
3. Describe analytical methods for hair analysis
4. Define how microbial organisms as traced evidence
5. Forensic identification of pollen grains
6. Comparison method of suspect hair and victim hair
7. Forensic significance of diatoms
8. Explain botanical evidence
9. Bones analysis in wildlife investigation
10. Role of technology combating wildlife crime

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define sub-branches of Forensic biology
12. Describe teeth as forensic evidence
13. Write biochemistry of human hair
14. What is forensic odontology? Type of cases involved in odontology
15. Describe sandalwood trees smuggling investigation
16. Evaluate crocodile poaching crime scene evidences
17. Forensic analysis of animal fur
18. Define national park and bird sanctuary
19. Illegal wood smuggling
20. Forensic entomology
21. Define tiger pug mark

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IV SEMESTER

PAPER - III (Technologic Methods in Forensic Science)

QP CODE: 8457

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe fundamental principles and forensic applications of thin layer chromatography

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define Spectroscopic methods and applications in forensic science
3. Fundamental principles of TLC
4. Define application of ultraviolet visible spectroscopy
5. Define atomic emission spectroscopy
6. Define X-ray spectrometry
7. Write short note on application of 3D photography
8. Explain Lambert-Beer law
9. Applications of ultraviolet photography
10. Define applications of photography in forensic science

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write in detail atomic emission spectroscopy
12. Define fundamental principles of Microscopes
13. Describe the electron microscope
14. Describe forensic applications of microscopy
15. Explain applications of colorimetric analysis
16. Write about neutron activation analysis
17. Define types of microscopes in forensic investigation
18. Describe forensic importance of comparison microscope
19. Discuss application of simple microscope
20. Explain videography as evidence
21. Write a short note on crime scene photography