

**2020/TDC(CBCS)/ODD/SEM/
BTCSEC-501T/309**

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**TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021**

BIOTECHNOLOGY

(5th Semester)

Course No. : BTCSEC-501T

(Basics of Forensic Science)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *fifteen* of the following questions :

1×15=15

1. Define forensic science.
2. What do you mean by chain of custody?
3. Define cyber forensics.
4. What are the requirements of forensic science laboratory?

5. What do you mean by factual evidence in forensic science?
6. What is Locard's exchange principle?
7. What is tool mark?
8. Define laceration.
9. What is CI (BS) Act?
10. What is CODIS?
11. What do you mean by Bull's eye injury?
12. Define haptoglobin test.
13. Mention the role of forensic bullet expert.
14. Which compound causes pink colouration around the wound?
15. Which test is used to detect gunshot residue?
16. What is ballistic coefficient?
17. Define exit wound.
18. Define ink analysis.

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19. What is the Drug and Cosmetic Act?
20. Define antidote.
21. Mention the role of fingerprint expert.
22. Do twins have same fingerprints?
23. What is 'voir dire' in forensic science?
24. List some widely used forensic identifiers.
25. What do you mean by evidence preservation?
26. What is eDiscovery?
27. Define hacking.
28. What is ethical hacking?
29. Mention the investigation tools used in cyber security.
30. Define investigation.

SECTION—B

Answer any *five* of the following questions : 2×5=10

31. Write a note on the organization of forensic science laboratory.

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(Turn Over)

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32. What is modus operandi in forensic science?
33. What do you mean by SIDS?
34. List out the types of deaths.
35. Mention the technique used for determining the concentration of elements in ballistics.
36. List some of the important chemical evidence for explosion.
37. What are the three types of fingerprints?
38. What is the significance of toxicology in forensic science?
39. Define data leakage and mention their types.
40. What do you mean by DNA profiling?

SECTION—C

Answer any *five* of the following questions : 5×5=25

41. Describe the principles of forensic science.
42. Discuss the important branches of forensic science.

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(Continued)

43. List out the causes of death. Add a note on the ways of assessing the deaths.
44. What do you mean by injury? Discuss various types of injuries.
45. What are the twelve characteristics of handwriting?
46. What are different types of injuries caused by firearms?
47. Classify poisons. What are the treatment procedures in poisoning cases?
48. Discuss the steps involved in finding fingerprints in crime scene.
49. Define DNA fingerprinting. Discuss the steps involved in DNA fingerprinting.
50. What is cyber security? Explain some common types of cyber security attacks.
