



10BT753

Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020
Forensic Science

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART – A

- 1 a. Explain history and development of forensic science. (10 Marks)
b. Define inquest, and discuss types of inquest. (10 Marks)
- 2 a. Write a short notes on:
i) Biological unit
ii) Document examination
iii) Physical service unit
iv) Firearms unit. (10 Marks)
b. Explain in brief the organization of a crime laboratory. (10 Marks)
- 3 a. Write a note on digital cameras and forensic image. (10 Marks)
b. Explain the legal procedures and use of courts in forensic science. (10 Marks)
- 4 a. Define forensic anthropology. Explain how age and sex and identified using forensic anthropology. (10 Marks)
b. Explain classification of fingerprints and list out the method of detecting fingerprints. (10 Marks)

PART – B

- 5 a. Explain the methods of characterization of semen. (06 Marks)
b. Write a note on toxicology of alcohol. (06 Marks)
c. Discuss various methods of toxicological findings for drugs. (08 Marks)
- 6 a. Explain the Bayesian likelihood ratio in evaluation of evidence. (10 Marks)
b. Explain probability population and sampler. Describe the rules of probability. (10 Marks)
- 7 a. Discuss various arithmetic and logical operations used in computer forensics. (10 Marks)
b. Write a note on:
i) Arrays ii) File processing iii) Report and control breaks iv) Processing data. (10 Marks)
- 8 a. Discuss various important professional ethics to science practitioners. (10 Marks)
b. How ethical requirements impact the daily work of a forensic scientist? (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8 = 50$, will be treated as malpractice.