CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐ 15BT752

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
Forensic Science

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1   a. Explain history and development of a forensic science. (08 Marks)
    b. Give an account of basic services provide by full service crime laboratories. (04 Marks)
    c. Define inquest. Explain types of inquest. (04 Marks)

OR

2   a. Explain the legal procedures and use of courts in forensic science. (06 Marks)
    b. Write short notes on:
       (i) Biological unit   (ii) Physical science unit
       (iii) Document unit   (iv) Firearms unit. (06 Marks)
    c. Explain in brief the organization of a crime laboratory. (04 Marks)

Module-2

3   a. Explain analysis and significance of the Trace Evidence and conditional evidence. (06 Marks)
    b. Briefly discuss maintaining chain of control with digital images. (06 Marks)
    c. Give an account on Individual and Indirect evidence. (04 Marks)

OR

4   a. Write short notes on :
       (i) Digital signatures   (ii) Digital Images
       (iii) Digital Images/videos   (iv) Digital Scanners. (08 Marks)
    b. Explain in briefly about voice print analysis and latest fingerprint unit. (04 Marks)
    c. Give an account on presenting pictures in court room. (04 Marks)

Module-3

5   a. Explain the characterization and stain patterns of blood. (06 Marks)
    b. Define forensic pathology. Write a note on Rigor mortis, Livor mortis and Algor mortis. (06 Marks)
    c. Give an account on preservation of Blood evidence. (04 Marks)

OR

6   a. Explain characterization of semen. (04 Marks)
    b. Define forensic anthropology. Explain how the age and sex are identified using forensic anthropology. (08 Marks)
    c. Write a short note on 'bite mark analysis'. (04 Marks)

Module-4

7   a. Explain the Bayesian likelihood ratio in evaluation of evidence. (08 Marks)
    b. Write a short notes on :
       i) Quality base of system
       ii) Role of statistician in forensic science. (08 Marks)

OR

8 a. Discuss the probability population and sampler. (08 Marks)
   b. Give brief reasons for using knowledge based system. (04 Marks)
   c. What is recursion? Explain with an example. (04 Marks)

Module-5

9 a. Write the various importances of professional ethics. (08 Marks)
   b. Give an account on code of ethics for forensics. (04 Marks)
   c. Write a short note on Ethical dilemmas and resolution. (04 Marks)

OR

10 a. How ethical requirement impact the daily work of a forensic scientist? (08 Marks)
   b. Explain the development of code of conduct for forensic science. (08 Marks)

* * * * *