AW—1785

B.Sc. (Part–III) Semester–VI Examination

6S : FORENSIC SCIENCE

(Digital and Cyber Forensic)

Time : Three Hours]   [Maximum Marks : 80

1. (A) Fill in the blanks :

    (i)   Program in execution is _____.

    (ii) WWW stands for _____.

    (iii) Linux is a _____ operating system.

    (iv) Recycle bin contains _____ files.   2

    (B) Select correct answer from the given alternatives :

    (i)   The process of converting from plain text to cipher text is known as _____.

          (a) Encryption   (b) Decryption   (c) Authentication

    (ii) Windows 10, Windows 8, Windows XP etc. are _____.

          (a) Linux OS   (b) Unitx OS   (c) Window OS

    (iii) Fingerprint, face recognition and iris recognition are the example of _____.

          (a) Network   (b) Biometric method (c) Wireless Internet

    (iv) The process _____ is the activity of the process manager that handles the removal
          of the running process from CPU and selection of another process.

          (a) Translation   (b) Scheduling   (c) Dispatching   2

    (C) Answer in **one** sentence :

    (i)   What is distributed operating system ?

    (ii) What is Cyber Forensic ?

    (iii) What is Blue-Tooth ?

    (iv) What do you mean by electronic mail ?   4

2. (a) Define OS. Explain Batch Operating System.   4

    (b) What do you mean by malicious code ? Explain in brief.   4

    (c) What is digital evidence ? Write difference between digital and physical evidence.
                                                                      4

OR

3. (p) Explain distributed operating system in brief.   4

    (q) Write procedure to create Email. Also write its use.   4

    (r) Describe the precaution to be taken while dealing with digital evidence.   4

4. (a) What is pre-incident preparation ? Explain.   4

   (b) What is cyber check ? Explain cyber check suite.   4

   (c) Explain right incident response tool for your organization.   4

OR

5. (p) How to formulate a response strategy ? Explain.   4

   (q) What is the use of forensic toolkit ? Explain.   4

   (r) What is disk imaging ? Explain.   4

6. (a) What do you mean by non-volatile evidence ? Explain.   4

   (b) Define data recovery. What is the role of backup in data recovery ?   4

   (c) Write various types of biometric methods. Explain any one.   4

OR

7. (p) Write and explain in detail various evidence collection methods.   6

   (q) Write use of biometrics. Explain how to evaluate accuracy of biometric.   6

8. (a) Explain the following :

    (i) FTK

    (ii) Formatted partition recovery.   8

   (b) Explain how to recover swap files and temporary files.   4

OR

9. (p) Write various data recovery tools. Explain any one.   6

   (q) Explain complete time line analysis of computer file creation and modification.   6

10. (a) Explain the following :

    (i) e-Discovery

    (ii) Encryption and Decryption   8

   (b) Explain the concept of certification security technique.   4

OR

11. (p) What is SET ? Explain.   4

   (q) How to recover Email ? Explain.   4

   (r) Write various cyber forensic investigation tools. Explain any one.   4

12. (a) Write and explain penalties under IT Act 2000.   6

   (b) Explain digital signature recognition process.   6

OR

13. (p) Explain in detail the concept of E-Governance.   6

   (q) Explain the function of controller.   6