

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) Unix 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