

~~D: 8- (1/3/2)~~ Joshi

**B.Sc. (Part-III) Semester-VI Examination**

**6S : FORENSIC SCIENCE**

**(Digital and Cyber Forensic)**

Time : Three Hours]

[Maximum Marks : 80

**Note :—** (1) **ALL** questions are compulsory.

(2) Question No. 1 carries 8 marks while all other questions carry 12 marks each.

(3) Draw diagrams and write equations wherever necessary.

(4) Use of calculator is allowed.

1. (A) Fill in the blanks :

2

(i) E-mail stands for \_\_\_\_\_

(ii) URI is a short form of \_\_\_\_\_

(iii) A computer program that acts as an interface between user and computer is known as \_\_\_\_\_

(iv) Recycle bin contains \_\_\_\_\_ files.

(B) Select correct answer from the given alternatives :

2

(i) RAM is an example of memory :

(a) Program

(b) Primary

(c) Secondary

(ii) Virus, Worms, Trojans are example of :

(a) Hardware

(b) Malware

(c) Programware

(iii) 203.0.113.4 is an example of :

(a) URL

(b) Internet Protocol

(c) Domain name

(iv) FTR stands for :

(a) File Tool Kit

(b) File Transport Key

(c) Forensic Tool kits

- (C) Answer in one sentence : 4
- (i) What is a process ?
  - (ii) What is disk imaging ?
  - (iii) What does biometric ID mean ?
  - (iv) Give any three attributes of file.
2. (A) Describe the precautions to be taken while dealing with digital evidence. 4
- (B) Explain Batch operating system with suitable diagram. 4
- (C) Explain WWW in detail with URL and DNS. 4

**OR**

3. (P) Explain distributed operating system in detail. 4
- (Q) Describe the nature of digital evidence. 4
- (R) What is network security and its need ? 4
4. (A) Describe encase forensic. 4
- (B) Explain right incident response tool for your organisation. 4
- (C) What is pre-incident preparation ? 4

**OR**

5. (P) Explain forensic tools. Give its types with example. 4
- (Q) What are different circumstances of computer security incident based on response strategy ? 4
- (R) Explain how to investigate incident. 4
6. (A) Describe the following terms : 6
- (i) Swap files and Getswap
  - (ii) Temporary files
  - (iii) Safe back.
- (B) Give general architecture comparison of different Biometric technologies. 6

**OR**

7. (P) Explain the concept of data recovery in different file systems. 4  
 (Q) Describe the reasons to use Biometrics. 4  
 (R) Explain the following terms : 4  
     (i) Safe back and Get slack  
     (ii) Gettime.
8. (A) Give the computer and cyber forensic basics. 4  
 (B) Explain FTP in detail with example. 4  
 (C) Describe how to recover internet usage data. 4
- OR**
9. (P) Explain what is mobile forensic. 4  
 (Q) What is Data and evidence recovery ? 4  
 (R) Give complete time line analysis of computer files. 4
10. (A) Describe technical issue in security technologies in detail. 6  
 (B) Explain the following : 6  
     (i) E-mail recovery  
     (ii) Digital signature protocols for transaction.
- OR**
11. (P) Explain different encryption and decryption methods in detail. 8  
 (Q) Explain digital evidence and preservation in detail. 4
12. (A) Describe functions of controller. 4  
 (B) Explain procedure followed by Certifying Authority. 4  
 (C) Explain in brief penalty and compensation for damage to computer. 4
- OR**
13. (P) Give terms and conditions of licence to issue digital signature certificate. 8  
 (Q) Give detail about the compensation for failure to protect data. 4

