

10. (a) Explain with the help of suitable example mobile device forensics. 7

(b) Write short notes on :

- (i) Collection of evidence
- (ii) Preservation of evidence. 7

11. Write short notes on :

- (i) Computer forensics software tools. 4
- (ii) Computer forensics hardware tools. 4
- (iii) Validating and testing forensic software. 5

OR

12. (a) Explain the working of virtual machine in detail with the help of example. 5

(b) Explain the following :

- (i) Windows Registry
- (ii) Microsoft startup task. 8

Faculty of Engineering & Technology
Seventh Semester B.E. (Infor. Tech.) (C.B.S.)
Examination
ELECTIVE-II : DIGITAL FORENSIC FOR
INFORMATION TECHNOLOGY

Time—Three Hours] [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve Question No. **1 OR** Question No. **2**.
- (3) Solve Question No. **3 OR** Question No. **4**.
- (4) Solve Question No. **5 OR** Question No. **6**.
- (5) Solve Question No. **7 OR** Question No. **8**.
- (6) Solve Question No. **9 OR** Question No. **10**.
- (7) Solve Question No. **11 OR** Question No. **12**.
- (8) Due credit will be given to neatness and adequate dimensions.
- (9) Assume suitable data wherever necessary.
- (10) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain the importance of Computer Forensics. What is the use of Computer Forensics in Law Enforcement ? 7

(b) What are the digital forensics assistance techniques to Human Resources ? 6

OR

2. (a) What are the steps taken by computer forensic expert ? Explain it in brief. 7

(b) Explain Cyber crime in detail. Also explain the benefits of professional methodology. 6

3. Explain the following :

(i) Data Backup and Recovery

(ii) Evidence Collection

(iii) Data Seizure. 13

OR

4. (a) What are the different types of evidence ? Explain it in detail. 6

(b) Write short note on Network Forensics. What are the developing standard procedures for network forensics ? 7

5. (a) Why is it important to preserve the digital crime scene ? Justify your answer. 7

(b) What is the methodology for the law enforcement collection of digital evidence from a running computer ? 7

OR

6. (a) What are the electronic evidence processing guidelines ? Explain it in brief. 7

(b) Write short notes on :

(i) Data Hiding technique

(ii) Remote acquisitions. 7

7. (a) Explain the importance of collecting evidence in private sector incident scene. 7

(b) Explain processing law enforcement crime scene in detail. 6

OR

8. (a) Why is it important to prepare for a search securing a computer incident or a crime scene ? 7

(b) State the principles of computer based digital evidence alongwith storing digital evidence. 6

9. (a) What is the role of email investigation ? Explain it in detail. 7

(b) Explain in brief the Client-Server Architecture. 7

OR