

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

- Q.1 Attempt **any two** of the following: 15
- a. List and explain the advantages of computer forensics.
 - b. Explain the need for computer forensics.
 - c. Describe examples of digital evidence.
 - d. Explain the forensic process.
 - e. Explain First Responder Roles.
- Q.2 Attempt **any two** of the following: 15
- a. Explain Elements of Facilities Build-out.
 - b. Explain forensic software.
 - c. Explain data management (Backup, Retention, Preservation)
 - d. Write a note on Acquiring data in Linux.
 - e. Write a note on portable device forensics.
- Q.3 Attempt **any two** of the following: 15
- a. Explain methods and tools to recover deleted partitions.
 - b. Explain Forensic Tool Kit (FTK).
 - c. List and explain methods of detecting the steganography.
 - d. Explain methods for cracking or attacking passwords.
 - e. Explain investigation using EnCase.
- Q.4 Attempt **any two** of the following: 15
- a. Explain how to identify a Brute Force Authentication Attack.
 - b. Write a note on Network Information-Gathering Tools.
 - c. List and explain layers of OSI model.
 - d. Write a note on Passive and Active Sniffing.
 - e. Explain disadvantages of wireless network.
- Q.5 Attempt **any two** of the following: 15
- a. Explain conventions used in email communication.
 - b. Explain investigating email crimes.
 - c. Describe writing investigation reports.
 - d. Explain types of expert witnesses.
 - e. Write a note on protecting your email address from spam.
