

(3 Hours)

[Total Marks: 80]

N.B. (1) Question No. 1 is **Compulsory**.

(2) Attempt any **three** questions from the remaining **five** questions.

(3) Answers to **sub-questions** should be **grouped** and written **together**.

- Q.1 (a) Explain the concept of SQL injection attack. 5
(b) What are the challenges in computer forensics? Explain. 5
(c) Explain the concept of Botnets. 5
(d) How does the Indian ITA – 2000 address cybercrime and promote cyber security in India? 5
- Q.2 (a) What do you understand by ID theft? How can it be misused? How to prevent being a victim of ID theft? 10
(b) Explain the role of backup in data recovery and discuss different backup strategies commonly used in organizations. 10
- Q.3 (a) Who are Cyber Criminals? How criminals plan the attacks? 10
(b) What is steganography? Explain the different categories of steganography in forensics. 10
- Q.4 (a) Explain various phases and activities involved in the life cycle of a forensics investigation process. 10
(b) Describe the various types of cybercrime with their classification in detail. 10
- Q.5 (a) What are the different e-mail protocols? Explain the role of e-mail in investigation. 10
(b) Explain the concept of phishing attack. What are the different countermeasures to prevent phishing attack? 10
- Q.6 (a) What are the obstacles in collecting digital evidence? Explain the digital evidence collection procedure. 10
(b) Explain the different cyber forensics tools. 10