

M.Sc. IT Part II (Sem-IV) 60:40 dt. 10/01/25

(Time: 2 Hours)

[Total Marks: 60]

N. B.: (1) All questions are compulsory.

(2) Make suitable assumptions wherever necessary and state the assumptions made.

(3) Answers to the same question must be written together.

(4) Numbers to the right indicate marks.

(5) Draw neat labeled diagrams wherever necessary.

(6) Use of Non-programmable calculators is allowed.

Q1. Attempt the Two of the following.

12 Marks

- Explain different types of Computer Forensics .
- Advantages and disadvantages of Computer Forensics.
- Explain in detail Investigation Process of Computer Forensics.
- What are different steps in Forensic Process.

Q2. Attempt Two of the following

12 Marks

- What are the Factors for strategic planning of Forensic laboratory ?
- Write Five globally accepted classes of fire included in Forensics.
- How one can Locate and Gather Evidence on a Windows Host.
- What is virtual memory?

Q3. Attempt Two of the following.

12 Marks

- Write the steps to recover deleted files using Recuva.
- Write Methods and tools to recover deleted partitions .
- Explain Different types of Steganography.
- What are Methods of detecting the Steganography.

Q4. Attempt Two of the following.

12 Marks

- Why it is necessary to capture Logs and Correlate it with events?
- Explain different Layers of OSI Model.
- What is Network Address and Network Address Translation(NAT) ?
Explain in detail
- What is Web Attack ? What are different types of Web Attacks?

Q5. Attempt Two of the following.

12 Marks

- Explain SMTP, POP3 and IMAP Protocols in detail.
- What is Google's Bypassing Two-Factor authentication?
- Write different steps to Investigate the Email Crime?
- How to protect Email Address from Spam?
