

Total No. of Questions : 8]

P550

SEAT No. :

[Total No. of Pages : 2

[6004]-485

**B.E. (Computer Engineering)**  
**CYBER SECURITY AND DIGITAL FORENSICS**  
**(2019 Pattern) (Semester - VII) (Elective - III) (410244C)**

*Time : 2½ Hours/*

*/Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume suitable data if necessary.

**Q1)** a) Explain in brief computer forensic services. Write the applications of digital forensics in military. [8]

b) What is the significance of data recovery and backup? Explain various data recovery solutions. [9]

OR

**Q2)** a) What are the various business oriented digital forensic techniques? [8]

b) How does computer forensics help in law enforcement? [9]

**Q3)** a) Discuss the various legal aspects of collecting and storing digital evidence. [9]

b) What are different computer evidence processing steps? [9]

OR

**Q4)** a) What is chain custody? How we can control the contamination of digital evidence? [9]

b) What are various methods of collecting digital evidence? Enlist the various digital collection steps. [9]

**Q5)** a) Explain different approaches for validating forensic data. [9]

b) Explain the approaches for seizing digital evidence at the crime scene. [8]

OR

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- Q6)** a) Explain the process of identifying digital evidence in computer forensics. [9]  
b) Explain Network forensics and order of volatility for computer system. [8]
- Q7)** a) State the features of any five computer forensic software tools. [9]  
b) Write short notes on [9]  
i) Task performed by digital forensic tool  
ii) Tools for email forensics  
iii) Techniques for email forensic investigation
- OR
- Q8)** a) State the features of any five computer forensic hardware tools. [9]  
b) Write short notes on [9]  
i) Role of client and server in email  
ii) Investigating Email crimes and investigations  
iii) NIST standards for forensic technologies