

Total No. of Questions : 8]

SEAT No. :

P-6556

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**B.E. (Computer Engineering)**

**CYBER SECURITY AND DIGITAL FORENSICS**

**(2019 Pattern) (Semester - VII) (410244 C) (Elective - III)**

*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) Assume suitable data, if necessary.

- Q1)** a) What are the typical steps followed by computer forensics specialists in an investigation? Explain any 2 in detail. [9]
- b) In what ways can business benefit from computer forensics technology? Explain in detail. [9]

OR

- Q2)** a) What kind of digital evidences can be collected in computer forensics? Explain in detail. [9]
- b) Why is data backup & recovery important in computer forensics? [9]
- Q3)** a) What is the primary purpose of collecting evidence in digital forensics? Explain in detail. [9]
- b) What are the typical steps involved in the collection of digital evidences? [8]

OR

- Q4)** a) Explain the different types of digital evidence that can be collected in computer forensics? [8]
- b) What method & techniques are commonly used to verify & authenticate computer images. explain any two in detail? [9]

*P.T.O.*

- Q5)** a) How do investigators determine which data is relevant to collect & analyze in digital forensics investigation? [8]  
b) What is the honeynet project, how does it contribute to network forensics? [9]

OR

- Q6)** a) Why is data validation crucial in digital forensics & what methods are commonly used for data validation? [8]  
b) Describe the process of seizing digital evidence at a crime or incident scene? [9]

- Q7)** a) How does email play a significant role in digital investigations? What types of information can be obtained from email Header that may be relevant in investigations? [9]  
b) What factors should be considered when evaluating computer forensics tool needs for an investigation. Explain any two in detail? [9]

OR

- Q8)** a) What is function e-mail server, how does it store & manage e-mail data? [9]  
b) Write short note (any one). [9]  
i) e-mail forensics tools.  
ii) Computer forensics hardware tools

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