

Total No. of Questions : 8]

**PD4581**

SEAT No. :

[Total No. of Pages : 2

**[6404]-86**

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

**CYBER SECURITY AND DIGITAL FORENSICS  
(2019 Pattern) (Semester - VII) (Elective - III) (410244 C)**

*Time : 2½ Hours]*

*[Max. Marks : 70]*

*Instructions to the candidates:*

- 1) Answers 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 is primary purpose of computer forensics & how does computer forensic differ from other forensic disciplines? [9]
- b)** How do law enforcement computer forensic technologies aid in criminal investigation? [9]

**OR**

- Q2) a)** What are some examples of technologies used in computer forensic investigation? Explain any two. [9]
- b)** What strategies can individuals & organizations use to ensure effective data backup for recovery purposes? Describe any two in detail. [9]

- Q3) a)** What are some common obstacles faced when collecting digital evidence. Explain in detail. [8]
- b)** What methods & techniques are commonly used to verify & authenticate computer images? Explain any two? [9]

**OR**

- Q4) a)** Describe the general procedure for collecting and archiving digital evidence in computer forensics? [9]
- b)** Explain duplication & Preservation of digital evidence? [8]

**P.T.O.**

**Q5)** a) What steps should be taken to secure computer incident or crime scene before beginning the search for digital evidence? [8]

b) What is the honeynet project, and how does it contribute to network forensics? [9]

OR

**Q6)** a) Why is obtaining a digital hash important while storing digital evidence, and how is it generated? Explain in detail. [9]

b) What are some common network tools used in network forensics, Explain any one detail? [8]

**Q7)** a) What factor should be considered when evaluating the computer forensics tool need for an investigation? Explain any two in detail? [9]

b) What is role of hardware tool in computer forensics, and how do they differ from software tools? [9]

OR

**Q8)** Write short note on (any 2) [18]

- a) Validating & testing forensics software
- b) e-mail investigation
- c) Computer forensics software tool

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