

Total No. of Questions : 8]

SEAT No. :

PD4581

[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 method & 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 honeyenet 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 tool 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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