[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

P.T.O.

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

<div align="center">OR</div>

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

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