[5253] - 185

T.E. (Computer)

COMPUTER FORENSIC AND CYBER APPLICATIONS

(2012 Pattern) (Semester - I)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1) *Solve 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 whenever necessary.*
3) *Assume suitable data, if necessary.*
4) *Figures to the right indicate full marks.*

Q1) a) Explain OSI Model with diagram.   **[8]**

b) Explain schedule selection and coordination in S-MAC.   **[6]**

c) Comment on language of Computer Crime Investigation.   **[6]**

OR

Q2) a) Explain the functions of the following network components: **[12]**

   i) Switch

   ii) Bridge

   iii) Gateways

   iv) Repeater

b) Explain the following terms with example: **[4]**

   i) Computer crime

   ii) Computer Forensics

c) What is authentication and reliability related to digital evidence ? Explain Authenticity process in detail.   **[4]**

Q3) a) Explain the following with example:-   **[8]**

   i) Digital evidence as Alibi

   ii) Cyber stalking

b) How will you apply forensic science to computers?   **[8]**

OR

P.T.O.

Q4) a) Enlist the important features from Indian IT act with reference to cyber crime and forensics. **[8]**

b) Comment on Violent crime and digital evidence. **[8]**

Q5) a) What is FAT file system? Compare FAT and NTFS file system. **[8]**

b) Explain patents, trademark and copyrights in detail. **[8]**

OR

Q6) a) Write short note on :- **[8]**

i) E-mail forgery

ii) Digital evidence on Mobile devices

b) Explain in brief Intellectual Property Rights (IPR). **[8]**

Q7) a) Enlist the steps for handling digital evidence at various Layers. **[9]**

b) Explain the steps applied in forensic science for TCP/IP network. **[9]**

OR

Q8) a) What is the role of sniffer in evidence collection at physical layer? **[9]**

b) Write short note on fraud detection in mobile and wireless network. **[9]**

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