[5870] - 1152

T. E. (Information Technology)
CYBER SECURITY
(Semester-II) (2019 Pattern) (Elective-II) (314454 B)

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 side indicate full marks.*
4) *Assume the suitable data, if necessary.*

Q1) a)   What is cyber forensics? Explain different processes in cyber forensics investigation process.   **[6]**

b)   Explain any three challenges faced by Forensic expert in cyber forensics.   **[6]**

c)   Write a short note any two tools for Network forensics analysis.   **[6]**

OR

Q2) a)   What is Malware Analysis and its key benefits? Explain different types of Malware Analysis.   **[6]**

b)   Explain any three challenges in E-mail Forensics? Explain any three Forensic Investigations techniques used in E-mail Forensic?   **[6]**

c)   How does Computer Forensics differ from data recovery?   **[6]**

Q3) a)   What is Digital Forensics and its application? Explain any two forensic Hardware/Software tool.   **[6]**

b)   Describe the process followed in preserving the Digital Evidence in Digital Forensic.   **[5]**

c)   What is the role of digital forensics in face and fingerprint recognition?**[6]**

OR

Q4) a)   Write a short on following methods used to preserve the evidence in digital forensic before starting the analysis.   **[6]**

   i)   Drive Imaging

   ii) Hash Value

P.T.O.

b) Why do we need digital forensics? Where can digital evidences are found? **[5]**

c) Explain any three forensic Tools used in Digital Forensics. **[6]**

Q5) a) Explain Social Engineering attack spiral model with the help of Diagram.**[6]**

b) What is mean by Insider Attack? What are types of it? **[6]**

c) What is "Phishing". And How it works? Explain Phishing Attack with the help of one example. **[6]**

OR

Q6) a) Which all preventive strategies can be used to prevent social engineering attack. **[6]**

b) Explain any three Social engineering attacks with example. **[6]**

c) What are the risk associated with social engineers and physical access to computers? **[6]**

Q7) a) Enlist any offences and related punishment under I.T act 2000. **[6]**

b) Explain in details Intellectual Property Rights in Cyberspace. **[5]**

c) What are Positive Aspects and weak areas of ITA 2000? **[6]**

OR

Q8) a) What is mean by Security Audit? Explain its Steps. **[6]**

b) Write a short note on: **[5]**

i) E-Commerce

ii) E-Governance

c) Explain the role of Certifying Authority and Controller. **[6]**

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