

Total No. of Questions : 8]

SEAT No. :

P829

[5870] - 1152

[Total No. of Pages : 2

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]

