M.Tech. 1st Semester

Examination, December–2018

CYBER FORENSICS AND INFORMATION SECURITY

Paper– MTCF–102

Networks And Information Security

Time allowed : 3 hours] *[Maximum marks : 100*

***Note:** Attempt **five** questions in total, selecting **one** question from each section and **Question No. 1 which is Compulsory.** All questions carry equal marks.*

1. (a) Distinguish among vulnerability, threat, and control. 5×4=20

   (b) Explain characteristics of Good Encryption system.

   (c) List and Explain different kind of malicious code.

   (d) What are the five principle services provided by Pretty Good Privacy (PGP)?

Section–A

2. List and explain security services and security mechanisms in detail. Draw a matrix to show relationship between security services and security mechanisms.20

3. What do you mean by Computer Security? List and Explain different kind of Passive and Active attack with the help of suitable diagram. 20

Section–B

4. Explain Clark-Wilson security Policy in detail. 20

5. Differentiate between Stream and Block cipher. Explain any one block cipher in detail. 20

Section–C

6. Explain Kerberos Authentication Protocol in detail using suitable diagram. 20

7. What do you mean by Intrusion Detection System (IDS)? Explain its components and different types of IDS. 20

Section–D

8. Write a note on following: 20

   (a) Digital signature

   (b) Web Security

9. What do you mean by Fire Wall? Explain different types of Firewall in detail by taking suitable example. 20