

**B.TECH.**  
**(SEM V) THEORY EXAMINATION 2022-23**  
**CYBER SECURITY**

**Time: 3 Hours****Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data, then choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 2 x 7 = 14**
- a. What do you mean by access control to information resources?
  - b. Explain the concept of EDI.
  - c. What is meant by security attack? How are they classified?
  - d. Describe security risk analysis.
  - e. How we can use firewall to make secure our application?
  - f. What is e-mail spamming/e-mail bombing?
  - g. What are the techniques involved in intrusion detection?

**SECTION B**

- 2. Attempt any three of the following: 7 x 3 = 21**
- a. Explain legal issues in Data mining Security.
  - b. Discuss different issues and challenges in cyber crime.
  - c. Describe the basic concepts of integrity and confidentiality policies.
  - d. What is digital signature? What is the requirement of digital signature system? List the security services provided by digital signature.
  - e. What is the decision support system? Discuss major functional requirement of a decision support system.

**SECTION C**

- 3. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain different types of Computer Forensics Technology.
  - (b) What is Security Threats to E-Commerce?
- 4. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain web server and session hijacking with example.
  - (b) What is electronic payment system? Compare electronic payment system on Internet with conventional payment mechanism.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- (a) What is intellectual property law? Explain.
  - (b) Explain unique features of Indian IT Act. Also Discuss the various tools of web security.

6. Attempt any *one* part of the following:

7 x 1 = 7

- (a) What is development of Information system? Explain spiral model of information system
- (b) Draw the diagrammatical approach to make difference between symmetric and asymmetric Cryptography.

7. Attempt any *one* part of the following:

7 x 1 = 7

- (a) Explain the information system resource and activities and what may be the reason of failure of it.
- (b) Explain and differentiate between integrating security at the implementation phase and the developing phase.

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