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B. TECH.
(SEM V) THEORY EXAMINATION 2021-22
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 are the threats to Information system?
 - b. What is the need of information security?
 - c. What are the security threats to E-commerce?
 - d. What are the security issues in hardware?
 - e. Explain Firewall in brief.
 - f. Explain Copyright Act in brief.
 - g. What are Email security policies?

SECTION B

- 2. Attempt any three of the following: 7 x 3 = 21**
- a. What do you mean by Virtual Private Network (VPN)? Discuss authentication mechanism used in VPN.
 - b. What is the security architecture of Information system? Explain the secure system design of Information system.
 - c. How can we provide the physical security of IT assets?
 - d. Explain public key and private key cryptography with the help of diagram.
 - e. Explain Intellectual Property Rights and Copyright Act in detail.

SECTION C

- 3. Attempt any one part of the following: 7 x 1 = 7**
- (a) What is the Information system? Discuss the different types of Information system.
 - (b) Explain Confidentiality, Integrity and Availability in terms of cyber security.
- 4. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain the e-Cash and Credit/Debit Cards with respect to E-commerce.
 - (b) What is Intrusion Detection System? Explain with Block Diagram.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- (a) What is the need of Risk management? What are the processes involve to managing the risk during the development of information system.
 - (b) What are the data security considerations? Explain Data backup security, data archival security in this reference.
- 6. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain the various types of security policies and their review process.
 - (b) Discuss different types of ISO standard related to information security.
- 7. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain Software License and Semiconductor Law in detail.
 - (b) Explain Cyber laws in India in detail.