

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

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

- a) What do understand by Information System?
- b) Define Information Assurance.
- c) Explain Intrusion Detection System.
- d) Define
 - (i) Trojan Horse
 - (ii) Virus
- e) What is Digital Signature.
- f) What are Security Issues in Hardware.
- g) Explain Copyright Law in India.
- h) Explain Semiconductor Law and Patent Law.
- i) What are WWW Policies.
- j) What are threats to E-Commerce.

SECTION B

2. Attempt any three of the following: 10 x 3=30

- a) What is cyber security? How to secure the cyber using Security Risk Analysis? Also discuss the common terminology that comes out from the process of the security risk analysis.
- b) Explain any 6 security threats.
- c) How can data be secured. What are the steps crucial for backup security measures.
- d) Explain:
 - i) IT Act
 - ii) Software License
 - iii) ISO
 - iv) Information Technology Act, 2000
- e) Explain E-Cash. How is it useful in public domain?

SECTION C

3. Attempt any one part of the following: 10 x 1=10

- a) What is the information system? Discuss the various types of information system.
- b) What is information security? Explain the need for Information security.

4. Attempt any *one* part of the following: 10x1=10

- a) Explain Smart Card. Explain how Credit Card is different from Debit Card.
- b) What is Data Security? Explain various methods used to secure data in computers and Networks.

5. Attempt any *one* part of the following: 10x1=10

- a) Define the followings
 - (i) CCTV
 - (ii) Firewall
 - (iii) E-mail Viruses
- b) How can Secure Information Systems be developed. Explain in detail.

6. Attempt any *one* part of the following: 10x1=10

- a) What is Security Policy? Why it is necessary? Explain some Corporate policies
- b) What is the Intellectual Property Right? Explain the various types of Intellectual Property Right.

7. Attempt any *one* part of the following: 10x1=10

- a) What is the need of security technology? Discuss various types of firewall security technologies.
- b) What is the need of Risk Management? What are the processes involved to managing the risk during the development of secure information systems?