

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

Time: 3 Hours**Total Marks: 70****Note:** 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 cyber security?
- b. What is need for cyber law in India?
- c. Differentiate between cryptography and steganography.
- d. What is Trojan horse?
- e. Differentiate between symmetric key and asymmetric key algorithm.
- f. What is intellectual property law?
- g. Differentiate between Worm and Virus.

SECTION B

2. Attempt any three of the following: 7 x 3 = 21

- a. What are the different approaches used for the development of Information System? Explain Waterfall model in detail?
- b. What is Virtual Private Network (VPN)? Explain the advantages of VPN? How tunneling takes place in VPN?
- c. Discuss Patent law. What are the requirements for obtaining a patent?
- d. What is Physical Security? Write down the basic tenets of physical security.
- e. Discuss the various security issues in hardware, data storage and downloadable devices?

SECTION C

3. Attempt any one part of the following: 7 x 1 = 7

- a. What do you mean by information system? Discuss the various types of information systems in detail.
- b. What is Information Assurance? Explain the different attributes of Information Assurance in brief?

4. Attempt any one part of the following: 7 x 1 = 7

- a. Write short notes on CCTV and its application.
- b. What is a firewall? Explain its different types in detail.

5. Attempt any *one* part of the following: **7 x 1 = 7**

- a. Differentiate between Credit card and Debit card.
- b. What is Electronic Data Interchange? What are the benefits of EDI? How can it be helpful in governance?

6. Attempt any *one* part of the following: **7 x 1 = 7**

- a. Describe Software License & Semiconductor Law in detail.
- b. Explain E-Cash. How is it useful in public domain?

7. Attempt any *one* part of the following: **7 x 1 = 7**

- a. What do you mean by cyber crime? Discuss the different types of cyber crime in detail.
- b. What are the provisions of IT Act, 2000? List its advantages and limitations.

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