

**B TECH**  
**(SEM V) THEORY EXAMINATION 2018-19**  
**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. Write a short note on the Copyright Act?
- b. What do you mean by physical Security for information Systems?
- c. Describe Intellectual Property Issues (IPR).
- d. Write short notes on "Patent Law".
- e. What do you mean by WWW policy?
- f. Give small notes on Corporate Policy.
- g. Differentiate between Cyber Security and Information Security.

**SECTION B**

2. Attempt any three of the following:

7 x 3 = 21

- a. What are the key differences between Symmetric and Asymmetric encryption?
- b. Explain Information Security Governance in detail and process involved in the Risk Management?
- c. Explain briefly about Application Development Security with guidelines.
- d. Elaborate the term Access Control. What is include in authorization process for (File, Program, Data rights) and explain the all types of controls.
- e. What do you understand by security structure (Architecture) and design?

**SECTION C**

3. Attempt any one part of the following:

7 x 1 = 7

- (a) What do you mean by Intellectual Property? Describe various means using which Intellectual Property may be protected to an extent.
- (b) Explain Confidentiality, Integrity and Availability in terms of cyber security.

4. Attempt any one part of the following:

7 x 1 = 7

- (a) What are the approaches followed in developing Information System (IS)? Explain the difference between security and threats.
- (b) What is the need of information Security also explain the term ISMS?

5. Attempt any one part of the following:

7 x 1 = 7

- (a) Explain the role of Security in Internet and Web Services.
- (b) What is Intrusion Detection System? Explain with Block Diagram.

6. Attempt any one part of the following:

7 x 1 = 7

- (a) Explain in Detail about Secure Information System Development.
- (b) Describe the working principle of CCTV.

7. Attempt any one part of the following:

7 x 1 = 7

- (a) What are the Data Security Considerations? Explain in this reference Data Backup Security.
- (b) What is Public Key Cryptography? Define its Advantage and Disadvantage.