

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.