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 informationSystems?
   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.