

**ALL EXCEPT MBA
(SEM IV) THEORY EXAMINATION 2017-18
CYBER SECURITY**

Time: 3 Hours

Total Marks: 100

Note: 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 failure?
 - b. What are the threats to information system?
 - c. What do you mean by disposal of data?
 - d. What are security threats?
 - e. Define the digital signature.
 - f. What is closed circuit television surveillance (CCTV)?
 - g. Define IT Asset.
 - h. What is the need of WWW policies?
 - i. Define Copyright Act.
 - j. What do you understand by IP spoofing?

SECTION B

- 2. Attempt any *three* of the following: **10 x 3 = 30****
- a. What is information assurance? Explain the three dimensional Information Assurance Model with help of diagram.
 - b. Explain in detail the Waterfall and Spiral Models followed to develop Information System.
 - c. What is cryptography? Explain Public Key and Private Key Cryptography with help of diagram.
 - d. What is the security Architecture of information System? Explain the secure system design of information system..
 - e. What is the cyber crime? Discuss the categories of cyber crime and cyber law.

SECTION C

- 3. Attempt any *one* part of the following: **10 x 1 = 10****
- (a) Elaborate the term Access control. What is included in the authorization process for (File, Program and Data rights) and explain the all types of controls.
 - (b) How Digital Signature is use for message authentication? Discuss the components of Digitalsignature.
- 4. 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 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

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Discuss data security with its goal and also discuss the data security consideration related to Data Backup, Data Archival and Data Disposal.
 - (b) What is the need of security technology? Discuss various types of firewall security technologies.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Discuss the steps of secure information development model and also discuss in detail its initial phase and development phase.
 - (b) What is the need of Risk Management? What are the processes involve to managing the risk during the development of secure information system?
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Explain the various types of security policies and their review process.
 - (b) What is the Intellectual Property Right? Explain the various types of Intellectual Property Right.