

**MBA**  
**(SEM IV) THEORY EXAMINATION 2017-18**  
**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 is meant by cryptography and cryptanalysis?
- b. Explain Brute force attack?
- c. What is meant by denial of service attack?
- d. Define Malicious Program?
- e. What is meant by Trojan horse?
- f. What is meant by logic bomb?
- g. What is meant by intrusion detection system?

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

- a. What are the security threats? Discuss.
- b. What is smart card? Differentiate between Credit and debit card?
- c. What is Cyber security? How to secure your information explain in detail?
- d. What are the decision support systems? Discuss major functional requirement of a decision support system.
- e. What are electronic payments System? Compare electronic payment system on Internet with conventional payment mechanisms.

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

- (a) Differentiate between secret key encryption and public key encryption.
- (b) What is the information security? Explain cyber-crime and cyber security in this reference.

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

- (a) What do you understand by electronic cash? Explain its processing.
- (b) Explain security goals in information security?

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

- (a) What is a digital signature? What are the requirements of digital signature system? List the security services provided by digital signature.
- (b) Describe the approaches used for Intrusion Detection in a system.

**6. 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, data archival security and data disposal considerations.
- (b) What do you understand by Firewall? Explain its types.

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

- (a) What is Intellectual property Law?
- (b) What is development of information system? Explain spiral model of information system.