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 it 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.