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 ofDigitalsignature.

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)   Explainthe various types of security polices and their review process.

    (b)   What is the Intellectual Property Right? Explain the various types of Intellectual Property Right.