Printed pages: 2	**AUC002**

(Following Paper Code and Roll No. to be filled in your answer booklet)

Roll No. | | | | | | | | | | |

B TECH/MCA
(SEM III) THEORY EXAMINATION 2016-17
CYBER SECURITY

TIME: 2 Hours   **Total Marks: 50**

Note: Attempt all questions.

Time: 2 Hours   *Maximum Marks: 50*

Note: *Attempt all questions*

Q.1. *Attempt any **TWO** parts of the following:*   **7x2=14**
    (a) Explain the following terms clearly.
       (i)   Message Integrity
       (ii) Masquerading
       (iii) Denial of Service Attack
       (iv) Trojan Horse
       (v) Public Key

    (b) What do you understand by Information Systems? Explain various components of information system with examples. How does IS relate to businesses and help them?
    (c) Discuss various dimensions of cyber-crimes. Also discuss issues and challenges in handling them.

Q.2. *Attempt any **TWO** parts of the following:*   **6x2=12**
    (a) What are various electronic payment systems? Compare and contrast between digital cash based payment system and card based electronic payment systems.
    (b) Compare the digital signature with paper signature? What are the properties that a digital signature scheme must satisfy? List the security services provided by digital signature.
    (c) What is Firewall? Discuss the general characteristics of firewalls. Also mention the limitations of Firewalls.

Q.3. *Attempt any **TWO** parts of the following:*   **6x2=12**
    a) Explain how security can be built into the software development life cycle of application development. Outline the major stages where this needs to be done.

b) What are the security issues related to data storage. What measures are taken to secure data back up?

c) Discuss the approaches and techniques used for intrusion detection.

Q.4. *Write short notes on any **TWO** parts of the following*:   **6x2=12**

(a) IT Act 2000

(b) Intellectual Property Rights (IPR)

(c) Need of Policies for Information Security