MASTER OF BUSINESS ADMINISTRATION (MBACT)

Term-End Examination

June, 2014

MCTE-021 : NETWORK SECURITY

Time : 3 hours   *Maximum Marks : 100*

Note :   Answer any five questions. Each question carries 20 marks.

1. (a) What is Network Security ? Explain the   10
         following network attacks.

    (i)   Denial Of Service (DOS)

    (ii)   Spoofing

    (iii) SQL Infection

    (iv)   Eavesdropping

    (b) Explain, how the attacks mentioned in   10
         question 1 (a) protected from attacks.

2. Explain the following basic security services.   20

    (a) Authentication

    (b) Confidentiality

    (c) Access control

    (d) Integrity

    (e) Non repudiation

    Write the names of security tools that are being
    used to ensure the above security services.

3. (a) What is Application Level Security ? Write and explain atleast five attacks that are to be performed on Application. **10**

   (b) Explain, how Application Security can be ensured to protect from attacks. **10**

4. (a) What is IP sec ? How does if secure IP communications by offering Authentication and Confidentiality Service ? **15**

   (b) Write and explain in brief on protocols that one being used for G-mail security. **5**

5. (a) What is TCP-wrapper ? Explain, how TCP-wrapper is used to filter Network Access to Internet protocol on unix-like operating systems ? **10**

   (b) Write and explain Access Control Lists (ACL) with respect to file system. **10**

6. (a) What is VPN ? Write and explain on MPLS VPN methods. **15**

   (b) Write the merits and limitations of implementation of MPLS VPN at Layer-2 and Layer-3. **5**

7. Write short notes on the following : **20**
   (a) Packet Filter Firewall
   (b) Virtual LAN
   (c) Network Connection Hijacking
   (d) Security Policy and Standards
   (e) Server Security