

00693

**MASTER OF BUSINESS ADMINISTRATION  
(MBACT)**

**Term-End Examination**

**June, 2012**

**MCTE-021 : NETWORK SECURITY**

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** *Answer any five questions. All questions carry equal marks.*

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1. What are the responsibilities of Transport layer and Application layer of a network for providing security ? Explain, how is security handled at these layers ? 20
  
2. What are the planning and software mistakes those can lead to various security threats ? Discuss the prevention and protection mechanisms for these security threats. 20
  
3. (a) Explain, how signing and verification can be performed using DSS ? 10  
(b) Compare and contrast between private key and public key crypto systems. 10

4. What are the different types of firewalls ? Discuss their characteristics, approach and working strategy. **20**
5. (a) Discuss how Kerberos protocol achieves authentication. **10**  
(b) What is MIME ? Explain its significance in email security. **10**
6. (a) How does IPsec offer the authentication and confidentiality service ? **10**  
(b) Discuss the security tools and services provided by Unix based server. **10**
7. (a) Explain, how the security can be managed at various network devices like Switches, Routers, Hubs and Gateways ? **10**  
(b) Explain the challenges and policies associated with user account management. **10**
8. Write short notes on the following : **5x4=20**  
(a) IP spoofing  
(b) Hash Function  
(c) TCP wrapper  
(d) SSL
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