M.Tech I - Semester Examinations, March/April -2011 NETWORK SECURITY -I (COMPUTER NETWORKS)		
Time:	3hours Max. Marl   Answer any five questions	<b>s: 60</b>
	All questions carry equal marks	
1.	<ul><li>a) List and briefly define categories of security attacks.</li><li>b) Explain substitutional and transpositional encryption methods.</li></ul>	[12]
2.	<ul><li>a) Describe Block Cipher chaining Mode of Operation.</li><li>b) Discuss about Diffie-Hellman Key exchange algorithm.</li></ul>	[12]
3.	<ul><li>a) Explain Message Authentication code in detail.</li><li>b) Describe about Euclid's Algorithm and how do you use in the security?</li></ul>	context [12]
4.	a) Explain Kerberos? b) Write about DSS (Digital Signature Standard) algorithm.	[12]
5.	<ul><li>a) What Services are provided by IPSec?</li><li>b) List three design goals for a Firewall? And Explain circuit-level gate</li></ul>	way.[12]
6.	a) Explain about PGP. b) Define Message Digest Algorithm.	[12]
7.	<ul><li>a) What are typical phases of operation of a virus or warm?</li><li>b) Explain RSA public key cryptography with appropriate numerical ex</li></ul>	ample.
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8.	<ul><li>a) Explain Triple DES.</li><li>b) What are the two basic functions used in encryption algorithms?</li></ul>	[12]