R09

Code No: C8204

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012
NETWORK SECURITY-1
(COMPUTER NETWORKS)

Time: 3hours **Max.Marks:60**

Answer any five questions
All questions carry equal marks
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1.a) Discuss security services, attacks and mechanisms.
b) Explain chinese remainder theorem.

2.a) Explain AES Encryption and Decryption algorithm.
b) Briefly explain various techniques used for distribution of public keys.

3.a) Describe various modes of operation of Block cipher.
b) Explain Diffe-Hellman key exchange algorithm.

4. What is Hash function? Explain secure Hash algorithm in detail.

5.a) Distinguish between Kerberos version-4 and version 5.
b) Give the format of X.509 scheme.

6.a) What is SNMP? Compare SNMPV 1 and SNMPV 3.
b) List out OS security functions.

7. Explain the following terms:
i) In complete Mediation
ii) Race condition.
iii) Morris worm

8. Explain the Design Principles, Characteristics and configurations of Firewalls.

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