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.
