

Roll No. ....

**2721**

**B. E. 8th Semester (C. S. E.)  
Examination – May, 2009  
NETWORKS SECURITY & MANAGEMENT  
Paper : IT-464-E**

**Time : Three hours ]**

**[ Maximum Marks : 100**

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt any *five* questions.

1. (a) Answer the following questions in brief. . . . . 10  
(i) . What is Denial of service attack ?  
(ii) What is Trojan horse ? Explain its Principle.  
(b) Discuss the basic concepts of Encryption and Decryption techniques with examples. . . . . 10
2. (a) What are Block cipher design principles and their modes of operation ? . . . . . 10  
(b) What is public key cryptography ? Explain RSA algorithm with example. . . . . 10
3. Explain the following encryption techniques with examples of each : . . . . . 20

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- (i) Substitution Cipher,  
(ii) Transposition Cipher.
4. How Speech signal can be encrypted ? Describe Analog and Digital systems of speech encryption. 20
5. (a) What is the purpose and principle of Digital signature ? Explain. 5  
(b) Describe the following : 15  
(i) Pretty Good Privacy  
(ii) IP Security  
(iii) Firewalls
6. (a) What do you mean by Network Management ? Explain with the help of NM Functional flow chart. 10  
(b) Give a System overview for SNMPv 1 Network Management Architecture. 10
7. (a) Compare RMON 1 and RMON 2. 8  
(b) What are security threats ? How they are handled in SNMPv3 ? Explain. 12
8. Write Short notes on any *two* of the following : 20  
(i) ATM Network Management  
(ii) TMN  
(iii) Data Compression Techniques