

MCA Sem-III (CBAS)
Network Security

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QP Code : 26696

(3 Hours)

[total Marks: 80]

- N. B.: (1) Question number 1 is compulsory
(2) Attempt any 4 from question Nos. 2 to 7.
(3) Illustrate answers with sketches wherever necessary.

1. A] Define Network Security. What are the services and mechanisms provided by Network Security? 10
B] What are the algorithm modes uses for secret key cryptography? 10
2. A] Explain in details on DES algorithm with reference to its overview and a DES round. 08
B] What do you mean by Hash function? Compare the terms SHA1 and MD5. 07
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3. A] Explain RSA algorithm with a suitable example. 08
B] Write an algorithm of Diffie - Hellman Key distribution and explain the concept of Man - in - the - Middle attack with proper numerical example. 07
4. A] What are the various forms of Authentication? Explain in details. 08
B] Explain KDC. How does the key distribution work with multiple KDC domains? 07
5. A] How are Kerberos ticket lifetimes in V5 different from V4? 08
B] Discuss Inter - realm authentication in Kerberos. 07
6. A] What is a digital certificate? Explain the stepwise process of certificate generation? 08
B] Explain how SET ensures a secure e - commerce transaction. 07
7. Write short notes on (any three) 15
a) Honey Pots
b) Intrusion Detection and its types
c) Integrity check
d) SSL

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