COURSE CODE(CREDITS): 21M11EC213(3)   MAX. MARKS: 35

COURSE NAME: Network Security Protocols

COURSE INSTRUCTOR: Salman Raju Talluri   MAX. TIME: 2 Hours.

Note: (a)All questions are compulsory.(b)Marks are indicated against each question in square brackets.(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems.

1. What do you mean by DES ? With a block diagram explain the steps involved in DES algorithm. [5m CO-4]

2. Which encryption scheme is better for Cryptography, symmetric or asymmetric? Explain the asymmetric encryption scheme in detail. [5m CO-4]

3. How do we define the authorization function with its components? Discuss about different types of authorization systems. [5m CO-4]

4. Discuss the necessary steps in analyzing the security state of an enterprise.Compare Auditing and Monitoring with regards to security assessment. [5m CO-3]

5. What are the components present in STRIDE threat model? Compare it with other threat assessment models. [5m CO-3]

6. Explain about the reflection-based channel finger print technique along with TDR for physical intrusion detection scheme. [5m CO-2]

7. Explain the following terms very briefly. [5m CO-1]

   (a) CIA in Network Security

   (b) Shell Scripting and Bash Programming

   (c) Secure Hash Algorithm and Digital Signature

   (d) Access Control List and Access Control Matrix

   (e) S-box and P-box permutation