COURSE CODE(CREDITS): 21M11EC213(3)　　　　　　MAX. MARKS: 25

COURSE NAME: Network Security Protocols

COURSE INSTRUCTOR: Salman Raju Talluri　　　　MAX. TIME: 1 Hour 30 min.

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.

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1. What do you understand by a system vulnerability? Discuss four sources of system vulnerabilities. [4m CO-2]

2. What are the two ways of executing cybercrimes? Explain in detail.[3m CO-3]

3. What do you mean by SHA-1? Explain in detail about all the steps involved in it. [4m CO-3]

4. How does the reflection-based channel finger print technique is used in detecting and locating the physically intrusive device in ICS? [5m CO-4]

5. What are the conditions that are to be incorporated on the pulse train used in TDR? Draw the timing diagrams for different cases. [4m CO-4]

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

    (a) Social Engineering

    (b) Hacker Topologies

    (c) Collision Resolution in Hashing

    (d) Digital Signature

    (e) Common Genesis Software Product