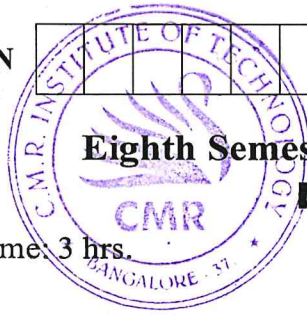


CBCS SCHEME

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15EC835



Eighth Semester B.E. Degree Examination, July/August 2021 Network and Cyber Security

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- 1 a. Describe the steps of SSL record protocol provides two services for SSL connections. (08 Marks)
b. Describe the different step involved in exchange of message from client and server in handshake protocol. (08 Marks)
- 2 a. Discuss the pseudorandom function in TLS. (08 Marks)
b. Discuss sequence of step involved during message exchange in user authentication protocols of SSH. (08 Marks)
- 3 a. Discuss the confidentiality and authentication in PGP cryptographic function. (10 Marks)
b. Define the five header fields in MIME. (06 Marks)
- 4 a. Illustrate the key component of the internet mail architecture with neat diagram. (10 Marks)
b. Discuss the five header fields in MIME. (06 Marks)
- 5 a. Describe the various IP security document categorized roadmap. (06 Marks)
b. Describe the IP security policy applied to each IP packet that transits from a source to a destination. (10 Marks)
- 6 a. With neat diagram, describe various fields in ESP packet format. (08 Marks)
b. With neat diagram, describe various fields in IKE header format. (08 Marks)
- 7 a. What are the significance of policy driven security certifications do net address the threat. (08 Marks)
b. Describe the list of specialized skills that should be available on demand in IT security. (08 Marks)
- 8 a. Describe the different type of full cyber anti-pattern template. (12 Marks)
b. What are the components of a micro anti-pattern templates. (04 Marks)
- 9 a. How does the zachman framework help with cyber security? (06 Marks)
b. Describe the architectural problem solving patterns. (10 Marks)
- 10 a. Describe the hardware setup sequence for a desktop pedestal. (08 Marks)
b. Describe the implementation with a combination of location protections, services and enterprise services that manage local configurations and services. (08 Marks)

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