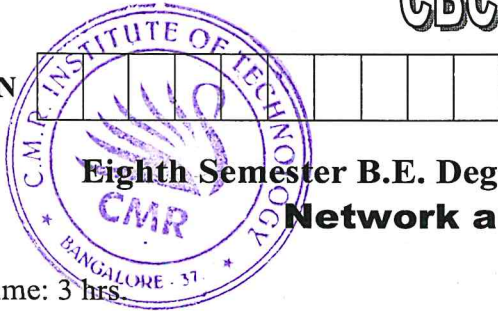


CBCS SCHEME

USN



17EC835

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

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Discuss the secure socket layer Architecture. (08 Marks)
b. Explain the connection state parameters. (08 Marks)
c. Mention the elements of the communication are encrypted when HTTPS is used. (04 Marks)
- 2 a. Explain the SSH transport Layer Packet Exchange with
i) Connection Via TCP
ii) Connection Via SSH tunnel. (10 Marks)
b. Discuss the steps involved for message exchange and Authentication methods. (10 Marks)
- 3 a. Mention the reasons for widely used PGP. (08 Marks)
b. What are the limitations of SMTP? (08 Marks)
c. What are the Five headers fields defined in MIME? (04 Marks)
- 4 a. Draw the block diagram of internet mail architecture and mention the function of each key component. (10 Marks)
b. Write the Function Flow diagram of DKIM and explain it. (10 Marks)
- 5 a. Discuss the Applications of IP Security. (08 Marks)
b. Explain the IP security processing model for outbound packets. (08 Marks)
c. Mention the services provided by RFC 4301. (04 Marks)
- 6 a. Draw the block diagram of IP Security Architecture and explain it. (10 Marks)
b. Explain Internet Key Exchange Header format and Generic Payload header. (10 Marks)
- 7 a. Compare Virus and Worms. (04 Marks)
b. Explain Antipattern based signature based Malware Detection versus polymorphic Threats. (08 Marks)
c. Discuss the primal design forces in the cyber security domains. (08 Marks)
- 8 a. Explain the heading fields and body fields in the full cyber antipattern template. (10 Marks)
b. Explain the following cyber security Antipattern catalogs.
i) Unpatched Applications
ii) Webify Everything (10 Marks)
- 9 a. Explain Architectural problem solving pattern. (10 Marks)
b. Discuss Minipattern for problem solving meetings. (10 Marks)
- 10 a. Discuss the list of typical re-imaging sequence for the window operating systems. (10 Marks)
b. Explain the typical installation sequence for a sliding – rails rack server. (10 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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