

CBCS SCHEME

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15EC835

Eighth Semester B.E. Degree Examination, November 2020

Network and Cyber Security

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions irrespective of modules.

Module-1

- 1 a. Write the comparison of threats on the web. (08 Marks)
b. What is port forwarding? Explain local and remote forwarding. (08 Marks)
- 2 a. Explain different phases in a SSL handshake protocol. (10 Marks)
b. Explain the following with respect to transport layer security :
i) Pseudorandom function
ii) Alert codes. (06 Marks)

Module-2

- 3 a. Explain PGP message generation and reception techniques. (08 Marks)
b. With the help of function modules and standardized protocols explain internet mail architecture. (08 Marks)
- 4 a. Explain S/MIME functionality. (08 Marks)
b. With a neat diagram, explain DKIM function flow. (08 Marks)

Module-3

- 5 a. Explain IPSec architecture. (08 Marks)
b. Explain the basic combinations of security associations. (08 Marks)
- 6 a. Discuss the processing model for outbound packets. (08 Marks)
b. Explain IKEV₂ exchanger. (08 Marks)

Module-4

- 7 a. Explain the primal design forces in cyber security domain. (08 Marks)
b. Explain the antipattern for policy-driven security certifications. (08 Marks)
- 8 a. Explain any two cybersecurity antipattern catalogs. (10 Marks)
b. Explain full cyber antipattern template. (06 Marks)

Module-5

- 9 a. Explain the Zachman framework for enterprise architecture. (10 Marks)
b. List the typical re-imaging sequence for the windows OS. (06 Marks)
- 10 a. Explain any two key techniques for architectural problem solving patterns. (08 Marks)
b. Explain any four host based security technologies. (08 Marks)

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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.