

CBCS SCHEME

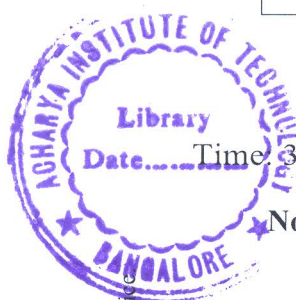
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15EC835

Eighth Semester B.E. Degree Examination, June/July 2019

Network and Cyber Security



Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the operation of SSL Record protocol with a neat sketch. (08 Marks)
- b. Explain SSH Transport layer protocol packet formation, with a neat sketch. (08 Marks)

OR

- 2 a. Explain the 4 phases of Handshake protocol with a diagram. (08 Marks)
- b. Describe SSL connection and SSL session in detail. (08 Marks)

Module-2

- 3 a. Explain the PGP operational description for E – main compatibility, with a neat sketch. (10 Marks)
- b. Define R64 conversion and RFC 5322. (06 Marks)

OR

- 4 a. Illustrate the key components of the Internet mail architecture, with a neat diagram. (10 Marks)
- b. List and brief the Enhanced Security Services in detail. (06 Marks)

Module-3

- 5 a. Describe the transport and tunnel modes used for IPSec ESP Services bringing out their scope relevant to IPV4 and IPV6, with a neat diagram. (10 Marks)
- b. Describe the SA parameters and SA selector in details. (06 Marks)

OR

- 6 a. Discuss the different authentication methods used with IKE key determination. (08 Marks)
- b. What is Security Association? Discuss the parameters used to describe security association. (08 Marks)

Module-4

- 7 a. Explain the following : i) Can't patch Dumb ii) Never Read the Logs. (10 Marks)
- b. Describe the antipatterns concept, with a diagram. (06 Marks)

OR

- 8 a. Explain Full cyber antipatterns template in detail. (08 Marks)
- b. List and explain the 3 types of forces in Cyber antipatterns. (08 Marks)

Module-5

- 9 a. What are the model names in the Zachman Framework? Explain. (08 Marks)
- b. Describe Architectural problem solving patterns in detail. (08 Marks)

OR

- 10 a. What are common tasks that network administrators perform for end user of IT? Explain. (08 Marks)
- b. How many rows and columns are in the Zachman Framework? Explain in detail. (08 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.