

# CBCS SCHEME



15EC835

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## Eighth Semester B.E. Degree Examination, June/July 2019 Network and Cyber Security

Time: 3 hrs.

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)

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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.