CBCS SCHEME

Eighth Semester B.E. Degree Examination, July/August 2022 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 parameters of SSL connection and SSL session in detail. (08 Marks)

b. Describe SSL Record protocol with suitable diagram.

(08 Marks)

OR

2 a. Explain four phases of SSL handshake protocol action with neat diagram. (08 Marks)

b. What is port forwarding? Explain local and remote forwarding supported by Secure Shell (SSH).

Module-2

3 a. Explain PGP (Pretty Good Privacy) message generation and reception techniques. (08 Marks)

b. Explain MIME (Multipurpose Internet Mail Extensions) content types.

(08 Marks)

OR

4 a. Explain Domain Keys Identified Mail (DKIM) function flow.

(08 Marks)

b. With a help of function modules and standardized protocol, explain Internet mail architecture. (08 Marks)

Module-3

5 a. Discuss Internet Key Exchange (IKE) header format.

(08 Marks)

b. Draw IPsec Architecture and explain Security Association Database (SAD) parameters.

(08 Marks)

OR

6 a. Describe processing model for outbound and inbound packet followed in IP traffic.

(08 Marks) (08 Marks)

b. Explain basic combinations of security associations using a suitable diagram.

Module-4

7 a. Explain following Antipattern – Catalogs.

i) Never Read the Logsii) Webify Everthing

(05 Marks)

b. Explain the document – driven certification and Accreditation.

(05 Marks) (06 Marks)

OR

8 a. Explain full cyber antipattern template in detail.

(10 Marks)

b. Explain forces in cyber antipatterns.

(06 Marks)

Module-5

9 a. Describe Zachman framework for enterprise architecture.

(10 Marks)

b. Explain architectural problem solving patterns indetail.

(06 Marks)

OR

10 a. Explain Host based security technologies.

(06 Marks)

b. Write a note on the following:

i) Enterprise Workshop

(05 Marks)

ii) Matrix Mining.

(05 Marks)