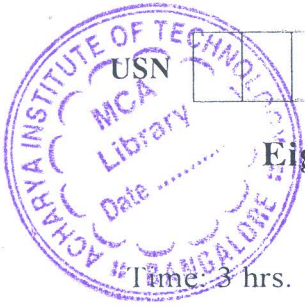


# CBCS SCHEME

18EC821



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## Eighth Semester B.E. Degree Examination, June/July 2023 Network Security

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Illustrate the use of 4 chief principles necessary for providing security. (10 Marks)
- b. The sole aim of the attacker is to maximize financial gain by attacking computer systems. Identify the attack and further elaborate the different varieties of same. (10 Marks)

OR

- 2 a. What is an active attack? Explain in detail how active attacks are classified. (10 Marks)
- b. With real time examples, discuss phishing and pharming. (10 Marks)

### Module-2

- 3 a. The web is faced with different types of security threats. Compare the threats on the web. (10 Marks)
- b. Illustrate with diagram the step by step operation of SSL record protocol. Explain each step briefly. (10 Marks)

OR

- 4 a. Discuss the different alert codes supported by Transport Layer Security (TLS). (10 Marks)
- b. With a neat diagram, explain Secure Shell (SSH) protocol stack. (10 Marks)

### Module-3

- 5 a. Discuss applications of IP sec. (05 Marks)
- b. List and explain IP sec documents. (05 Marks)
- c. Explain Transport and Tunnel modes. (10 Marks)

OR

- 6 a. Discuss the purpose of padding and Anti-Replay service. (10 Marks)
- b. Illustrate the working of basic combinations of security associations. (10 Marks)

### Module-4

- 7 a. Explain 3 classes of intruders with examples, discuss intruder patterns of behavior. (10 Marks)
- b. With a neat diagram, illustrate the profiles of intruder and authorized users. Also discuss approaches to intrusion detection. (10 Marks)

OR

- 8 a. Describe the overall taxonomy of software threats (Terminology of Malicious program). (10 Marks)
- b. Explain the anti-virus approaches and also in detail discuss the generations of antivirus software. (10 Marks)

Module-5

- 9 a. Explain the four general techniques that the fire wall use to control access. (05 Marks)
- b. Discuss the capabilities which one within the scope of a firewall. (05 Marks)
- c. With a neat diagram, describe the working of packet filtering fire wall. (10 Marks)

OR

- 10 a. Discuss the characteristics of Bastion Host. (10 Marks)
- b. Explain Host based and personal firewalls. (06 Marks)
- c. Explain the different purposes for which internal fire wall can be used. (04 Marks)

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