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TED (15) – 5136
(REVISION — 2015)

Reg. No.
Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

INFORMATION SECURITY

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Define the term computer security.
2. What is meant by passive attack ? Give one example.
3. What is Token ? Give two example.
4. What is BOT ?
5. Define Distributed DoS.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. With the help of a diagram explain five ingredients of symmetric encryption.
2. Lists various elements of access control.
3. Illustrate with the help of a diagram how to load hashed password.
4. Explain the four phases of the life time of a virus.
5. Describe anomaly detection in intrusion detection.
6. Explain about amplifier attack.
7. Briefly explain the defenses against DoS attack.

(5 × 6 = 30)

PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

- III (a) Briefly explain the ingredients of public key cryptography with the help of a diagram. 10
- (b) Write short note on message authentication code. 5

OR

- IV (a) What is digital signature and explain how it is created with neat sketch ? 10
- (b) What is hash function and explain the requirements of hash function ? 5

UNIT — II

- V (a) Briefly explain how the hashed password is loaded and verified by the system. 9
- (b) Describe biometric accuracy. 6

OR

- VI (a) Describe Memory card. 5
- (b) Briefly explain smart card categorisation and components. 10

UNIT — III

- VII (a) Discuss virus structure. 8
- (b) What is root kit ? Discuss the characteristics of Root kit. 7

OR

- VIII (a) Discuss intrusion detection exchange format. 7
- (b) Explain host based intrusion detection. 8

UNIT — IV

- IX (a) Explain Synchronous spoofing. 10
- (b) Describe four techniques used by the firewall to control access. 5

OR

- X (a) Discuss about Circuit level gateway. 8
- (b) Write a note on reflection attacks. 7