TED (15) - 5136 (REVISION — 2015)	Reg. No
	Signature

## DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2017

## 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 Integrity.
  - 2. What is digital signature.
  - 3. Define User Authentication.
  - 4. List any four classes of intruders.
  - 5. Define firewall.

 $(5 \times 2 = 10)$ 

## PART - B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
  - 1. Describe implementation step computer security strategy.
  - 2. Illustrate the password attack strategies.
  - 3. Explain the physical characteristics used in biometric authentication.
  - 4. Describe honey pots.
  - 5. Explain any four characteristics of root kit.
  - 6. Discuss about source address spoofing.
  - 7. Discuss about bastion host.

 $(5 \times 6 = 30)$ 

## Marks PART --- C (Maximum marks: 60) (Answer one full question from each unit. Each full question carries 15 marks.) UNIT -- I III (a) Describe computer security triad. 9 . (b) Explain in detail about communication line and network attack. OR 7 (a) Illustrate how the public key certificate is used in authentication. (b) Describe stream cipher and block cipher. UNIT - II (a) Explain in detail about password selection strategies. (b) Explain the various security issues of user authentication. 7 OR 6 VI (a) Discuss access control policies. (b) Discuss Unix file access control. UNIT - III VII (a) Discuss the classification and requirement of intrusion detection system. 6 (b) Illustrate SNORT architecture. OR 9 VIII (a) What is virus and explain the nature of virus? (b) Describe about worm counter measures. UNIT -- IV IX (a) Discuss flooding attacks. (b) Write a note on synchronous spoofing. OR

X (a) Explain packet filtering firewall.(b) Explain distributed firewalls.