

No. of Printed Pages : 4

MSEI-022

**P. G. DIPLOMA IN INFORMATION
SECURITY (PGDIS)**

Term-End Examination

December, 2021

MSEI-022 : NETWORK SECURITY

Time : 2 Hours

Maximum Marks : 50

Note : Section A : Answer all the Objective type questions.

Section B : Answer all the Very short answer type questions.

Section C : Answer 2 out of 3 Short answer type questions.

Section D : Answer 2 out of 3 Long answer type questions.

Section—A

Note : Attempt all objective type questions.

1. Write True or False : 1 each
 - (a) Network layer firewall works as a Packet Filter.

- (b) Digital signature requires the sender to use the private key.
- (c) Bluetooth is an example of PAN.
- (d) SING is a GUI scanning technique.
- (e) Full form of PGP is Pretty Good Privacy.

2. Fill in the blanks : 1 each

- (a) Full form of CHAP is
- (b) Firewalls are often configured to block traffic.
- (c) The signal where the watermark is to be embedded is called the
- (d) DES is a cipher.
- (e) Kerberos is a key authentication service developed at MIT.

Section—B

Note : Attempt all the very short answer type questions.

3. Write short notes on the following : 2 each
 - (a) Hash function

P. T. O.

[3]

MSEI-022

- (b) E-mail spoofing
- (c) Biometrics
- (d) Honey pots
- (e) Session hijacking

Section—C

Note : Attempt 2 out of 3 short answer type questions.

- 4. What is digital signature ? Describe a public key method to create and check digital signatures. 5
- 5. Explain the difference between symmetric cryptography and asymmetric cryptography. 5
- 6. Discuss the types of digital watermarks. 5

Section—D

Note : Attempt 2 out of 3 long answer type questions.

- 7. Explain the role of a firewall in securing the network. Describe different types of firewalls.

10

P. T. O.

[4]

MSEI-022

- 8. Describe the security protocols in detail, with suitable examples. 10
- 9. Describe identity management. What does Single Sign On (SSO) mean and how is it typically implemented ? 10

MSEI-022