

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

**Term-End Examination**

**February, 2021**

**MSEI-022 : NETWORK SECURITY**

*Time : 2 hours*

*Maximum Marks : 50*

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**Note :**

*Section A – Answer **all** the objective type questions.*

*Section B – Answer **all** the very short answer type questions.*

*Section C – Answer any **two** questions out of three short answer type questions.*

*Section D – Answer any **two** questions out of three long answer type questions.*

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**SECTION A**

*Answer **all** the questions.*

**1.** Write *True* or *False* :

*5×1=5*

- (a) Network layer firewall is only Stateful, never Stateless firewall.
- (b) Hyper Text Transfer Protocol (http) is a means for transmitting and receiving information across the internet.

- (c) WEP is more secure than WPA2 Protocol.
- (d) The main objective of SSL is authenticating the client and server to each other.
- (e) Digital Signature requires the sender to use the private key.

2. Fill in the blanks :

$5 \times 1 = 5$

- (a) A \_\_\_\_\_ is a device that forwards packets between networks by processing the routing information in the packet.
- (b) DES is a \_\_\_\_\_ Cipher.
- (c) Full form of LDAP is \_\_\_\_\_.
- (d) Algorithm for performing encryption and decryption is known as \_\_\_\_\_.
- (e) PGP stands for \_\_\_\_\_.

## SECTION B

Attempt ***all*** the questions.

**3.** Write short notes on the following :

$5 \times 2 = 10$

- (a) Biometrics
- (b) IDS
- (c) Risk Analysis
- (d) Honey Pots
- (e) Digital Watermarking

## SECTION C

*Answer any **two** questions out of the three short answer type questions.*

4. Explain Fingerprinting technique of identity management. 5
5. Explain the main features of a Hash function. 5
6. Explain how key distribution is achieved in Symmetric key encryption. 5

## SECTION D

*Answer any **two** questions out of three long answer type questions.*

7. Explain the concept of Network Based, Application Based and Host Based Firewalls in detail. 10
  
  8. Explain Identity Management. What does Single Sign On (SSO) mean and how is it typically implemented ? 10
  
  9. Explain the basic scanning techniques in detail. 10
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