| **MSEI-022**

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

June, 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 any **two** questions out of three short answer type questions.*

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

SECTION A

*Answer **all** the questions.*

1. Write *True* or *False* :   *5×1=5*

   (a) Symmetric encryption is best used for small blocks of data, digital signatures, digital envelopes and digital certificates.

   (b) IPSec is designed to provide security at the transport layer.

(c) Bluetooth is an example of PAN.

(d) Full form of PGP is Pretty Good Privacy.

(e) WEP is less secure than WPA.

2. Fill in the blanks :   *5×1=5*

(a) The signal where the watermark is to be embedded is called the _____ .

(b) An attempt to make a computer resource unavailable to users is called _____ attack.

(c) A network of compromised devices owned by attackers is known as _____ .

(d) The multiple access technique used by IEEE 802.11 standard for wireless LAN is _____ .

(e) _____ can be defined as the practice and study of hiding information.

SECTION B

*Answer **all** the questions.*

3. Write short notes on the following :   *5×2=10*

   (a)   E-mail spoofing

   (b)   Trojan horses

   (c)   Hash function

   (d)   Port scanning tools

   (e)   Routers

SECTION C

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

4. Illustrate the difference between symmetric cryptography and asymmetric cryptography.   *5*

5. Explain in detail about "Key" establishment and its types.   *5*

6. Explain Vulnerabilities, Threats, Attacks and Controls with suitable example of each.   *5*

SECTION D

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

7. Explain types of Firewalls with the help of diagram. *10*

8. Explain Diffie-Hellman key exchange protocol. Is it prone to MITM attack ? Why or why not ? Discuss and explain. *10*

9. Explain Network Layer Attack. Discuss Packet Sniffing in detail. *10*

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