MSEI-022

P. G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

June, 2020

MSEI-022 : NETWORK SECURITY

Time : 2 Hours 　　　　*Maximum Marks : 50*

Note : *(i)* *Section A : Answer all the objective type questions.*

(ii) *Section B : Answer all the very short answer type questions.*

(iii) *Section C : Answer any two out of three short answer type questions.*

(iv) *Section D : Answer any two out of three long answer type questions.*

Section—A

1. Write true *or* false :　　　　1 each

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

(b) A firewall is a device with set of rules to permit ordinary network access by unauthorized services.

(c) Fingerprints can be used for identification.

(d) Network layer firewall is only stateful never stateless firewall.

(e) The private key of digital signature is used by the sender.

2. Fill in the blanks : 1 each

(a) A _____ is a software or hardware based network security system that controls the incoming and outgoing network traffic based on applied rule-set.

(b) _____ is a secret-key network authentication service developed at MIT by Project Athena.

(c) Full form of CHAP is _____.

(d) Algorithm for performing encryption and decryption is known as _____

(e) _____ port is used for SMTPS + TLS security.

Section—B

3. Write short notes on the following :   2 each

   (a) Asymmetric cryptography

   (b) Trojan horses

   (c) Port Scanning tools

   (d) Biometrics

   (e) Public key infrastructure

Section—C

4. Explain security issues involved in wireless.   5

5. Discuss the types of digital watermarks.   5

6. Explain IDS and IPS. Is honey pot and IDS or IPS ? Justify your answer.   5

Section—D

7. Explain next generation networks.   10

8. Explain identity management. What does Single Sign On (SSO) mean and how is it typically implemented ?   10

9. Explain the role of a firewall in securing the network. Describe different types of firewall. 10

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