

MASTER OF SCIENCE (INFORMATION SECURITY) (MSCIS) / P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

December, 2022

MSEI-022 : NETWORK SECURITY

Time : 2 hours

Maximum Marks : 50

Note :

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

*Section B – Answer any **two** out of three questions.*

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

SECTION A

*Answer **all** the questions.*

1. Write notes on the following :

5×4=20

- (a) Trojan Horse
- (b) E-mail Spoofing
- (c) Port Scanning Tools
- (d) Pretty Good Privacy
- (e) Undeniable Signatures

SECTION B

Answer any **two** out of three questions.

$2 \times 5 = 10$

2. Describe the types of digital watermarks. 5

3. What is the difference between Symmetric and Asymmetric Cryptography? 5

4. What are the main properties of a Hash Function? 5

SECTION C

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

2×10=20

5. Describe the role of a firewall in securing the network. Also explain different types of firewalls. 10
 6. Explain Identity Management. What does Single Sign On (SSO) mean and how is it typically implemented ? 10
 7. Explain Diffie Hellman's key exchange protocol. Is it prone to MITM attack ? Why or why not ? Discuss and explain. 10
-