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MSEI-022

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

Term-End Examination

June, 2023

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** out of three long answer type questions.*

Section—A

Note : *Attempt all the questions.*

1. Write notes on the following : 5×4=20
 - (a) Intrusion Detection System

P. T. O.

- (b) Hash function
- (c) Digital watermarking
- (d) Dictionary attack
- (e) Honey pots

Section—B

Note : Attempt *two* out of three questions.

- 2. Describe fingerprinting technique of identity management. 5
- 3. Briefly explain main properties of digital signatures. 5
- 4. Define vulnerabilities, threats, attacks and controls with suitable example of each. 5

Section—C

Note : Attempt *two* out of three long answer type questions.

- 5. Describe the concept of Network Based, Application Based and Host Based Firewalls in detail. 10

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6. What is cryptography ? Explain the different stages of cryptology in detail. 10
7. What are various security issues in wireless ? Explain the process of WEP encryption and WEB decryption with the help of a suitable diagram. 10