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**MSEI-022**

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**MSEI-022**

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

**Term-End Examination**

**June, 2024**

**MSEI-022 : NETWORK SECURITY**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** **Section A :** Answer all the questions.

**Section B :** Answer any two of three questions.

**Section C :** Answer any two questions out of three long answer types questions.

**SECTION-A**

Answer all the questions.

1. Write True or False :  $5 \times 1 = 5$
- (a) Network layer firewall work as a packet Filter.

- (b) Full form of PGP is pretty good privacy.
- (c) Digital signature require the sender to use the private key.
- (d) Encryption can ensure secrecy of data.
- (e) The Private key of digital signature is used by the sender.

2. Fill in the blanks :  $5 \times 1 = 5$

- (a) The signal where the watermark is to be embedded is called the .....
- (b) Firewalls are often configured to block ..... traffic.
- (c) The ..... operates a certification scheme for ISMS auditors.
- (d) Algorithms for performing encryption and decryption are known as ..... algorithms.
- (e) Full Form of CHAP is .....

3. Write short notes on the following :  $5 \times 2 = 10$

- (a) Public Key Infrastructure
- (b) Trojan Horses
- (c) Padding methods
- (d) Risk Analysis
- (e) Routers.

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**SECTION-B**

Answer any two out of three questions:

$$2 \times 5 = 10$$

4. Write in detail about “Keys” establishment and its types. 5
5. Define Vulnerabilities, Threats attacks and controls with suitable example of each. 5
6. Describe the type of IDSs and their limitations. Why we need hybrid IDSs ? 5

**SECTION-C**

Answer any two questions out of three long answer type questions :  $2 \times 10 = 20$

7. “Cyber Crime Investigations are time-sensitive”. Explain how ? 10
8. Explain Network layer Attack. Discuss Packet Sniffing in detail. 10
9. Explain the application of Biometric technology in detail. 10

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