

No. of Printed Pages : 3

**MSEI-023**

**MASTER OF SCIENCE  
(INFORMATION SECURITY)/  
P. G. DIPLOMA IN INFORMATION  
SECURITY (MSCIS/PGDIS)  
Term-End Examination  
June, 2026**

**MSEI-023 : CYBER SECURITY**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from*

*Q. 2 to Q. 5.*

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1. Write short notes on the following : 4×5=20

- (i) Difference between IDS and IPS with examples.

- (ii) Role of Multi-factor Authentication (MFA) in securing systems.
  - (iii) Phishing *vs.* Spear Phishing attacks with example.
  - (iv) Steps to prevent domain Cache poisoning attacks.
2. Explain Information security in the context of Cloud Infrastructure. How does it ensure secure communication over the Internet ? 10
3. Discuss how firewalls and intrusion detection systems (IDS) help secure networks from cyber threats. Provide examples of their application in real-world scenarios. 10
4. What are Zero-Day vulnerabilities ? Explain their significance in cyber-security with examples of recent incidents involving zero-day exploits. 10

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5. Describe the importance of conducting regular cyber security audit for organizations to identify vulnerabilities and mitigate risks effectively. Name a commonly referred International standard and provide the steps involved in such audits. 10

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