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MSEI-021

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

Term-End Examination

June, 2026

**MSEI-021 : INTRODUCTION TO
INFORMATION SECURITY**

Time : 2 Hours

Maximum Marks : 50

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

(ii) *Attempt any **three** questions from
rest four questions.*

1. Differentiate the following in brief : $4 \times 5 = 20$
 - (i) Intrusion Detection System (IDS) and Intrusion Prevention System (IPS)
 - (ii) Data Privacy and Data Security
 - (iii) Hashing and Encryption
 - (iv) Phishing and Spear Phishing
2. Explain the key principles of Information security : Confidentiality, Integrity, and Availability (CIA). Provide examples of how each principle is applied in real-world scenarios. 10
3. Discuss the concept of social engineering attacks. Explain different types of social engineering techniques and how organizations can mitigate them. 10

[3]

4. Explain the concept of a Virtual Private Network (VPN). How does it help in protecting sensitive information over public networks ? 10
5. An organization has identified a ransomware attack on its systems. What steps should be taken to contain the attack and recover from it ? Discuss in detail. 10

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