MASTER OF SCIENCE

(INFORMATION SECURITY)/

P. G. DIPLOMA IN INFORMATION

SECURITY (MSCIS/PGDIS)

Term-End Examination

June, 2025

MSEI-021 : INTRODUCTION TO

INFORMATION SECURITY

Time : 2 Hours   Maximum Marks : 50

Note : *Question No.* **1** *is compulsory. Attempt any* **three** *questions from the remaining four questions.*

1. Differentiate between the following : 4×5=20

    (a) Software updates and Security patches

    (b) Spam and Phishing

    (c) Public key and Private key w.r.t. encryption

    (d) Malware and Ransomware

2. Explain Virtual Private Network (VPN). How can it be used to enhance the security in remote work scenarios ?   10

3. What is a Malware ? Discuss ways it can reach to an offline system (not connected to Internet).   10

4. Explain how a browser using digital certificate verifies that the website you are visiting is genuine.   10

5. An organisation realises their database got leaked on the dark web. Suggest immediate steps need to be taken by their IT team as first responder.   10

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