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MSEI-025

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

Term-End Examination

June, 2026

**MSEI-025 : APPLICATION AND BUSINESS
SECURITY DEVELOPMENTS**

Time : 2 Hours

Maximum Marks : 50

Note : (i) **Section A :** Answer all the questions.

(ii) **Section B :** Answer any **two** out of **three** short answer type questions.

(iii) **Section C :** Answer any **two** out of **three** long answer type questions.

Section—A

1. Write notes on the following (any *four*) :

4×5=20

- (a) Active and passive attacks
- (b) Difference between SMTP and POP
- (c) SSL
- (d) Buffer overflow attack
- (e) Difference between authorization and access control

Section—B

Note : Attempt any *two* out of three short answer type questions. 2×5=10

- 2. How to securely send e-mails and transfer files ? 5
- 3. Define cryptography with suitable example. 5
- 4. What is the difference between a network vulnerability assessment and a penetration test ? 5

Section—C

Note : Attempt any **two** out of three long answer type questions. 2×10=20

5. Explain the concept of building security into software/system development life cycle. 10
6. Explain the characteristics of firewall. How is it helpful in providing security in a network ? 10
7. Explain error handling and logging with example. 10

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