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**MSEI-025**

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

**Term-End Examination**

**December, 2024**

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

*Time : 2 Hours*

*Maximum Marks : 50*

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

**Section-B :** *Answer any **two** out of three  
Short answer type questions.*

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

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**Section—A**

**Note :** *Attempt all the questions.*

1. Write notes on the following (any *four*) :  $5 \times 4 = 20$

(a) XSS attack

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- (b) Canonicalization
- (c) Digital Signature
- (d) Spoofing
- (e) Application Security Assessment

### Section—B

**Note :** Attempt any **two** out of three short answer type questions.

2. List down any *five* main types of security testing as per open source security testing methodology manual. 5
3. Explain Buffer Overflow attack and how to prevent it. 5
4. Explain symmetric and asymmetric cryptography with example. 5

### Section—C

**Note :** Attempt **two** out of three long answer type questions.

5. Explain the working of PGP with example. 10
6. Explain white box testing and its advantages and disadvantages over the black box testing. 10
7. Explain the types of challenges faced by web application scanners. 10

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