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MSEI-023

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

Term-End Examination

December, 2024

MSEI-023 : CYBER SECURITY

Time : 2 Hours

Maximum Marks : 50

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

1. Write short notes on the following : 4×5=20
 - (a) Principle of least privilege in access control
 - (b) Zero-Day Vulnerabilities
 - (c) Role of Multi-Factor Authentication (MFA)
 - (d) Social Engineering attacks

2. What is domain cache poisoning attack ? How
can it be prevented ? 10

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3. Explain the architecture and working of a Public Key Infrastructure (PKI). 10
4. Describe the steps involved in performing a Vulnerability Assessment and Penetration Testing (VAPT) on a network. 10
5. Describe the lifecycle of a ransomware attack, from initial infection to encryption and ransom demands. 10

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