

**MASTER OF SCIENCE  
(INFORMATION SECURITY) (MSCIS)**

**Term-End Examination**

**December, 2024**

**MSE-036 : LATEST TRENDS IN INFORMATION  
AND CYBER SECURITY**

*Time : 2 Hours*

*Maximum Marks : 50*

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

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

4×5=20

- (a) DevSecOps
  - (b) Edge Computing
  - (c) Cyber Resilience
  - (d) IoT Botnets
  - (e) Ransomware-as-a-Service (RaaS)
2. Explain the evolution for the adoption of zero trust architecture. Describe its key principles in modern cyber security.

10

**[ 2 ]**

3. Explain the significance of Artificial Intelligence (AI) and Machine Learning (ML) in enhancing cyber security practices. 10
4. How has the role of DevSecOps evolved, and why is it crucial for modern software development and cyber security ? 10
5. Describe the latest advancements in Identity and Access Management (IAM) for improving cyber security. 10

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