

**K-979**

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[Roll No. ....]

**MIT(CS)-103/CEGCS-03**

**MSCCS/CEGCS/Ist Semester  
Examination Dec., 2023**

**CYBER ATTACKS AND COUNTER  
MEASURE : USER PERSPECTIVE**

**Time : 2 Hours]**

**[Max. Marks : 70**

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*Note :- This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**(Long Answer Type Questions) 2×19=38**

*Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.*

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( 1 )

P.T.O.

1. What is Cyber Attack ? How it is different from electronic authentication ? Explain any five types of Cyber Attacks in details.
2. What is access control ? Why access controls are required ? What are the different access control models ?
3. What are security controls ? What are the basic criteria based on which security controls are classified ?
4. What is Authentication ? How it is different from electronic authentication ? Compare Authentication with authorization. Discuss multi-factor authentication in detail.
5. How email works ? Explain with a help of a diagram. Discuss different types of email abuse. Explain the steps to trace the location of an email sender.

### **Section–B**

**(Short Answer Type Questions)**      4×8=32

**Note :-** Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Explain the relation between threat and vulnerability.

2. What is cloud computing ? Also explain the benefits and different models of cloud-computing.
3. Explain difference between policy, procedure and guidelines
4. What are different types of access control techniques and technologies.
5. What is the difference between simplex, half duplex and full duplex communication ?
6. Discuss CHAP authentication process in detail.
7. Define SDLC. Explain different stages of SDLC with the help of a diagram.
8. Define the following :
  - (a) Encryption
  - (b) Decryption
  - (c) Key
  - (d) Digital Certificate

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