**MSE-029**

# MASTER OF SCIENCE

# (INFORMATION SECURITY)

# (MSCIS)

## Term-End Examination

## December, 2023

### MSE–029 : CYBER ATTACK : USE OF TECHNOLOGY IN CYBERSPACE

*Time : 2 Hours*                    *Maximum Marks : 50*

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

1.  Explain the following in brief :          4×5=20

    (a)  Characteristics of cyberspace

    (b)  Network security *vs.* Application security

    (c)  Principles of privacy and data protection

    (d)  Malware

2. Describe types of computer networks with a diagram with merits and limitations of each. 10

3. What do you mean by Indicators of Compromise (IoCs). Explain with an example. 10

4. Explain penetration testing with processes and methods. 10

5. Write and explain any *five* vulnerabilities in software application. 10