# PRESIDENCY UNIVERSITY
## BENGALURU

## School Of Computer Science and Engineering & Information Science

### MTECH-End-Term Examinations, Aug 2024

**Even Semester**: 2023 - 24

**Course Code**: CSE5015

**Course Name**: DATA SECURITY & ACCESS CONTROL

**Department: CSE-MTECH(Sem-II)**

**Date**: 14-08-2024

**Time**: 9.30am-12.30pm

**Max Marks**: 100

**Weightage**: 50%

**Instructions:**
*(i) Read the all questions carefully and answer accordingly.*
*(ii) Do not write any matter on the question paper other than roll number.*

| Q.No | Questions | Marks | CO | RBT |
|---|---|---|---|---|
| 1 | a. List the differences between authentication and authorization | 4 | CO1 | L1 |
| | b. Write in detail about Fiestal Cipher Model | 6 | CO1 | L2 |
| | c. Explain in detail about various Security Models | 10 | CO1 | L3 |
| OR | | | | |
| 2 | a. What is Bella-Padulla Model? | 4 | CO1 | L1 |
| | b. Explain S-Box Operation | 6 | CO1 | L2 |
| | c. Explain in detail about the Elements of CIA with differences | 10 | CO1 | L3 |
| 3 | a. List the types of Viruses | 4 | CO2 | L1 |
| | b. Explain about Anti Malware approach | 6 | CO2 | L2 |
| | c. Explain in detail about Data Erasure approaches | 10 | CO2 | L3 |
| OR | | | | |
| 4 | a. What is Data Erasure | 4 | CO2 | L1 |
| | b. Write about Key Specific Security Model | 6 | CO2 | L2 |
| | c. Write in detail about classification of Malwares | 10 | CO2 | L3 |
| 5 | a. Explain ARP Spoofing | 4 | CO3 | L1 |
| | b. Differences between Mandatory and Discretionary Access Control | 6 | CO3 | L2 |
| | c. Explain in details about different types of Access Control Methods | 10 | CO3 | L3 |
| OR | | | | |
| 6 | a. What is DHCP attack? | 4 | CO3 | L1 |
| | b. Write about Denial-of-Service attack | 6 | CO3 | L2 |
| | c. Explain in detail about types of attacks on Datalink and Network Layer | 10 | CO3 | L3 |

| 7 | a. | List tools available for Data Security | 4 | CO4 | L1 |
|---|---|---|---|---|---|
| | b. | Explain about General Data Protection Policy | 6 | CO4 | L2 |
| | c. | Write in detail about Data Leakage Protection mechanism | 10 | CO4 | L3 |

OR

| 8 | a. | Describe Role Based Access Control | 4 | CO4 | L1 |
|---|---|---|---|---|---|
| | b. | Write about Organizational Security Policy | 6 | CO4 | L2 |
| | c. | Explain in details about Security in Linux operating System | 10 | CO4 | L3 |

| 9 | a. | What is CIA Triangle in Data Security | 4 | CO1 | L1 |
|---|---|---|---|---|---|
| | b. | Explain about Data Security Techniques | 6 | CO1 | L2 |
| | c. | Write notes on Security Automation | 10 | CO1 | L3 |

OR

| 10 | a. | Define Anti-Malware | 4 | CO2 | L1 |
|----|---|---|---|---|---|
| | b. | Explain about Data Masking approaches | 6 | CO2 | L2 |
| | c. | Write in details about various backup options for an organization data | 10 | CO2 | L3 |