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Name.....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION  
MARCH 2021**

(CBCSS)

Computer Science

CSS 4E 03 C—SYSTEM SECURITY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend all questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**

*Answer any four questions.  
Each question carries 2 weightage.*

1. What do you mean by information security ?
2. What is Salami attack ?
3. Write a note on memory address protection in OS.
4. Write short on biometric based authentication.
5. How the terms confidentiality and availability are related ?
6. Who all will be the team member of an effective security administration wing ?
7. What do you mean by non-malicious program errors ?

(4 × 2 = 8 weightage)

**Section B**

*Answer any four questions.  
Each question carries 3 weightage.*

8. Explain how the terms security, confidentiality and integrity are related.
9. Write the importance of program security in systems security.
10. What are the file access protection mechanism available in Operating Systems ?

Turn over

11. What are the things to be taken care while designing an authentication module ?
12. Write a short note on database security.
13. What are the characteristics of a good security policy ?
14. What do you mean by multi-level security ? Explain with an example.

(4 × 3 = 12 weightage)

### Section C

*Answer any two questions.*

*Each question carries 5 weightage.*

15. List and explain the different types of system security challenges.
16. Explain the threats of virus and other malicious codes. Explain the working and controlling mechanism of viruses.
17. What do you mean by trusted operating systems? Explain the peculiarities of it.
18. Explain the importance of organizational security policy and how it can be effectively implemented.

(2 × 5 = 10 weightage)