



QP CODE: 25047455



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc INFORMATION TECHNOLOGY

ELECTIVE - CA830301 - INTRODUCTION TO CYBER SECURITY - I

2019 ADMISSION ONWARDS

E1551C4E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is a threat?
2. What is vulnerability?
3. Define cryptography.
4. Define virus signature
5. Define enforced sharing?
6. Define one time password?
7. What is TCP three-way handshake?
8. What is flooding attack?
9. Explain the sections and penalties for tampering with computer source documents.
10. What is SQL-Injection?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Briefly explain authentication based on phrases and facts.
12. Differentiate between procedure oriented access control and role based access control.
13. Discuss how fake emails are used in email attacks.
14. Explain the rules of correctness.
15. Explain CIA trade.





16. What are the steps to setup a firewall?
17. Which are the user access privileges?
18. Explain the different types of hacking.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the technical details regarding transmission, propagation, activation, and stealth of malicious code.
20. Explain Security in Design of Operating System.
21. Explain IDS and IPS.
22. Which are different types of computer related offences? Explain in detail.

(2×5=10 weightage)

