



QP CODE: 25050408



25050408

Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

MSc CYBER FORENSICS

**Core Courses - CF010101 - COMPUTER ORGANIZATION AND EMBEDDED
NETWORKING**

2019 Admission Onwards

42B72AC8

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. List different addressing mode.
2. What is unsigned representation?
3. Differentiate main memory and auxiliary memory.
4. What is cache memory?
5. Define 1. CAP 2. NMI
6. Explain the flag register of 80386?
7. Explain control registers.
8. Define port 2
9. Explain the hardware component of embedded system.
10. Describe real time clocks.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain computer registers
12. Discuss different types of instruction sets.
13. Explain in detail about main memory
14. Define 1. RAM 2. ROM 3. Bootstrap loader 4. Memory address map.





15. Explain addressing modes of 80286.
16. Describe superscalar execution with diagram.
17. Explain the instruction set of 8051
18. Write a short note on serial communication protocol.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain 1's complement and 2's complement with example.
20. Explain in detail different types of RAM.
21. Explain in detail about the architecture of 80386.
22. Explain architecture of 8051 with diagram.

(2×5=10 weightage)

