

D 32688

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2022**

(CBCSS)

Computer Science

CSS1C05—COMPUTER ORGANIZATION AND ARCHITECTURE

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

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

1. Define shift registers.
2. Give a note on straight line sequencing.
3. Draw a flowchart for Unsigned Binary Division.
4. What is virtual memory ?
5. List out the timers of 8051 and their associated registers.
6. What is meant by interrupts ?
7. What are the data types in computer organization ?

(4 × 2 = 8 weightage)

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

8. Describe the Register Transfer Language (RTL).
9. Write a short note on Micro- programmed control unit.
10. What is overflow rule and subtraction rule ?
11. How to use daisy chaining priority in computer architecture ?
12. Discuss about the instruction cycle in 8085 microprocessors.

**Turn over**

13. Explain the I/O channels and its types.
14. Give a note on registers with, its types.

(4 × 3 = 12 weightage)

### Section C

*Answer any **two** questions.  
Each question carries 5 weightage.*

15. Explain the decoders with its example.
16. Demonstrate the hard-wired control unit with its diagram.
17. Discuss about the, restoring division algorithm for unsigned integer.
18. Demonstrate the architecture of 8051 microcontrollers.

(2 × 5 = 10 weightage)