

D 114555**(Pages : 2)****Name.....****Reg. No.....****FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2024****(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. What is the principle for floating-point representation ?
2. List out the basic computer organization.
3. Give one of the conditions for floating-point operation.
4. Mention the functions of Input-Output interface.
5. What are the different types of interrupts present in the 8086 microprocessor ?
6. Define error detection codes.
7. What does serial port mean ?

(4 × 2 = 8 weightage)**Section B**

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

8. Explain multiplexers.
9. Difference between single bus structure and two bus structure.
10. What are the steps for multiplication of positive numbers ?
11. Define main memory and list out its types.
12. Discuss about the different machine cycles.
13. Difference between Signed magnitude and 2's complement.
14. Mention the characteristics of machine instructions.

(4 × 3 = 12 weightage)**Turn over**

Section C

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

15. Explain in detail about the Boolean algebra.
16. What are the types of machine instructions ?
17. Give a detailed view of direct access media (DMA).
18. Demonstrate the functional units of 8085 Microprocessor. (2 × 5 = 10 weightage)