Roll No											

PRESIDENCY UNIVERSITY
BENGALURU

SET B

SCHOOL OF INFORMATION SCIENCE
END TERM EXAMINATION - JAN 2024

Semester : Semester I - 2023
Course Code : CSA2002
Course Name : Computer Organization
Program : BCA

Date : 10-JAN-2024
Time : 1:00 PM - 4:00 PM
Max Marks : 100
Weightage : 50%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.
(iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS **4X5M=20M**

1. Brief a short notes on the different types of computers.

(CO1) [Knowledge]

2. Explain how the computer performance can be measured.

(CO2) [Knowledge]

3. Elaborate the various types of ROM.

(CO3) [Knowledge]

4. Explain how the performance of cache memory can be improved.

(CO4) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS **5X10M=50M**

5. Elaborate Locality of Reference and its various types.

(CO1) [Comprehension]

6. Explain the different types of instructions and the different ways of representing the instruction.

(CO2) [Comprehension]

7. Explain 4-bit carry look-ahead adder with proper diagram.

(CO3) [Comprehension]

8. Illustrate the memory hierarchy with proper explanation.

(CO3) [Comprehension]

9. Explain the entire process of accessing a word by CPU in the memory hierarchy.

(CO4) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS **2X15M=30M**

10. Explain the execution of below mentioned instruction with control sequence and proper execution phases- **"ADD (R4), R2".**

(CO3) [Application]

11. Elaborate the techniques used in the multiplication of binary numbers with example.

(CO4) [Application]