

Roll No

**PRESIDENCY UNIVERSITY
BENGALURU****SCHOOL OF INFORMATION SCIENCE
MID TERM EXAMINATION - DEC 2023****Semester** : Semester I - 2023 - 24 - BCA - 2023**Course Code** : CSA2002**Course Name** : Sem I - CSA2002 - Computer Organization**Program** : BCA**Date** : 09-12-2023**Time** : 9:00 AM - 10:30 AM**Max Marks** : 50**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****(5 X 2 = 10M)**

1. Define subroutine. (CO1) [Knowledge]
2. List the different memory based registers. (CO1) [Knowledge]
3. List the instructions used in subroutines. (CO1) [Knowledge]
4. Explain absolute addressing mode. (CO2) [Knowledge]
5. List the difference between mainframes and workstation. (CO2) [Knowledge]

PART B**ANSWER ALL THE QUESTIONS****(4 X 5 = 20M)**

6. Explain the working principle of Subroutines. (CO1) [Comprehension]
7. Write a short note on the different types of computers. (CO1) [Comprehension]
8. Elaborate the basic memory operations with examples. (CO2) [Comprehension]

9. Explain how the performance of a computer can be measured.

(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

10. Answer the following questions:

- a) Explain the different types of instructions and the different ways of representing the instruction.
- b) Differentiate between the techniques used by CPU for addressing an I/O device.

(CO2) [Application]