PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023

Semester : Semester V - 2021
Course Code : CSE3079
Course Name : Sem V - CSE3079 - Parellel Computing
Program : B. TECH

Date : 31-OCT-2023
Time : 11:30AM - 1:00PM
Max Marks : 50
Weightage : 25%

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. What is meant by Concurrency?

(CO1) [Knowledge]

2. Define the term Pipelining

(CO1) [Knowledge]

3. Define Prefetching.

(CO1) [Knowledge]

4. Define the term Granularity.

(CO2) [Knowledge]

5. What are the performance metrics used to evaluate parallel programs?

(CO2) [Knowledge]

PART B

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

6. Write notes on Array Processor

(CO1) [Comprehension]

7. Explain and Compare Tightly Coupled System and Loosely Coupled System.

(CO1) [Comprehension]

8. Write about all the Performance Metrics

(CO2) [Comprehension]

9.

Sketch and Explain any two Internetwork connection toplogies

(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION   (1 X 20 = 20M)

10.   i). Explain how 16 numbers are added using various granularity approach (10)
    ii). Describe about send and receiving operations in Blocking & Non-Blocking communications.(10)

(CO2) [Application]