Roll No						

(5 X 2 = 10M)

 $(6 \times 5 = 30M)$

(CO2) [Comprehension]



PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING MID TERM EXAMINATION - APR 2023

Semester: Semester VI - 2020 Date: 15-APR-2023

Course Name: Sem VI - CSE3079 - Parellel Computing

Max Marks: 60

Program: CSE

Weightage: 30%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

ANSWER ALL THE QUESTIONS

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(iv) Do not write any information on the question paper other than Roll Number.

PART A

1.	What is meant by Concurrency?	
	•	(CO1) [Knowledge]
2.	Define Prefetching.	(CO1) [Knowledge]
3.	Mention any 4 issues in pipeline computer design.	(CO1) [Knowledge]
4.	Draw the structure of tree based network	(OO I) [Ithlowledge]
5.	Define the term Granularity.	(CO2) [Knowledge]
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PART B

	ANOTHER THE GOLDHOIT	(o / c o o o o o o
6.	Write notes on Array Processor	
		(CO1) [Comprehension]
7.	Explain in detail about stages of Pipelining with example?	
		(CO1) [Comprehension]
8.	Explain Flynns Classification	

9. Sketch and Explain any two Internetwork connection toplogies

(CO2) [Comprehension]

10. Write about all the Performance Metrics

(CO2) [Comprehension]

11. Explain dependancy issues in super scalar execution.

(CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

12. Use any 3 mechanism to achieve parallelism in Uniprocessor System

(CO1) [Application]

13. Apply one to all broadcast & all to one reduction for Matrix- Vector multiplication

(CO2) [Application]