Seat No: _____

Enrollment No: ____ PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Winter 2022 – 23 Examination

Semester: 7 Date: 11/10/20 Subject Code: 203105433 Time: 10:30 a		Date: 11/10/2022	
		Time: 10:30 am to 01:00	am to 01:00 pm
Sub	, ject Name: Parallel & Distributed Computing	Total Marks: 60	1
Inst	ructions:		
1. A	Il questions are compulsory.		
2 F	gures to the right indicate full marks		
3 M	lake suitable assumptions wherever necessary		
1 S	tart new question on new page		
т. 5	art new question on new page.		
01	Objective Type Questions		(15)
1. is used to prevent data inconsistence due to race arou		ound condition	(15)
	1 is used to prevent data mechasistence due to race at	June condition.	
	2I aw refers to perception that the number of transistors on a mic	erochin doubles every two	
	2. Eaw refers to perception that the number of transistors on a fine	toenip doubles every two	
	3 In distributed system each processor has its own		
	(a) Level Mamory (b) Clock (c) Both Level & Mamory (d) None of this m	antionad	
	(a) Local Memory (b) Clock (c) Boun Local & Memory (d) None of this in	the execution of enother	
	4.A processor performing fetch or decoding of different instruction during the execution of another instruction is called		
	Instruction is called		
	(a) Super Scaling (b) Pipelining (c) Parallel Computation (d) None of this mentioned		
	5. What is full form of NUMA?		
	6. Define distributed system?		
	7. Define Cache Coherence?		
	8.Uniprocessor computing device is called		
	9 bus is used to transfer data from main memory to periphera	l device.	
	10.Interprocess Communication that takes places		
	(a) Centralized Memory (b) Shared Memory (c) Message Passing (d) Both	a & b	
	11.MIMD Stands for?		
	12. PC Program Counter is also called		
	13. Instruction pipelining has minimum stages		
	(a) 4 (b) 2 (c) 3 (d) 6		
	14. Computer system of a parallel computer is capable of		
	(a) Decentralized Computing (b) Parallel Computing (c) Centralized Compu	ting (d) Both a & b	
	15.CISC Stands for?		
Q.2	Answer the following questions. (Attempt any three)		(15)
	A) Describe Flynn's Taxonomy in Short?		(-)
	B) A non-pipelined computer uses a 10nsec clock. The average number of clock cycle per Instruction		
	required by machine is 3.85, when the machine is pipelined it requires 11	nsec clock. Find out	
	sneedun?		
	C) What is Pthread Explain in short?		
	D) Difference between Monolithic and Micro kernel		
03	A) Explain Distributed computing model in detail?		(07)
Q.5	B) Explain PPC in Detail?		(07)
			(00)
	B) Explain dual of One to All broadcast in Hypercube with suitable example	_	(09)
O 4	A) Explain Instruction Level Dorollelism & Task Level Derollelism	<i>.</i>	(00) (07)
Q.4	A) Explain histraction Level Falanchistil & Task Level Falanchisti		(07)
	(A) Explain Cloud Deployment Model in detail?		
	D) Explain MSL Protocol in detail?		(07)
	D) Explain Wist Protocol in detail?		(00)