Total No. of Questions : 4]

PB262

SEAT No. :

[Total No. of Pages : 1

[6270]-50

B.E. (Computer Engineering) (Insem) HIGH PERFORMANCE COMPUTING (2019 Partern) (Semester - VIII) (410250)

Time : 1 Hour]

[Max. Marks: 30

1) Answer Q.4 or Q.2, Q.3 or Q.4.

Instructions to the candidates:

- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data necessary.

Q1)	a)	Explain the impact of Memory Latency & Memory Bandwidth on sys	tem
		performance?	[6]
	b)	Write note on Communication costs in parallel machines?	[5]
	c) (Explain with suitable diagram STMD, MIMD architecture?	[4]
		OR	
Q2)	a)	Explain basic working principle of Super scalar Architecture?	[6]
	b)	Describe UMA and NUMA multicomputer platforms?	[5]
	c)	What is VLIW processor? Write any two advantages of VLIW?	[4] 2
			N
Q3)	a)	Explain any three decomposition technique with example?	[6]
	b)	Describe mapping technique for load balancing?	[5]
	c)	What are the characteristics of tasks.	[4]
		OR OR	
Q4)	a)	Explain in details parallel algorithm models?	[6]
<	b)	Explain the different methods for Containing Interaction Overheads.	[5]
	c)	What are the characteristics of Inter-Task Interactions?	[4]
)		

• • • • • 6.2