ME (CMPN | I CB (05) 2.0 | 5 | 14.

QP Code: BB-11486

(3 Hours)

[Total Marks: 80

N.B: 1) Q.1 is compulsory.

- 2) Attempt Any 3 out of remaining.
- 3) Assume suitable data wherever required.

Q.1 a	Discuss in detail classification of parallel computers?	(10)
b	) Describe different types of parallel algorithm models with examples	(10)
_	) What is Massage passing programming? Explain in details blocking & Non blocking	
Passi	ng operation?	(10)
t	e) Explain row wise 1-D & 2-D partitioning parallel algorithm for Matrix-Vector Mult	iplication.(10)
Q.3 a	) Discuss in detail parallel Quick sort algorithm with suitable example.	(10)
b	) Describe the Characteristics of tasks & interaction which can be used in the process	of mapping. (10)
Q.4 a	) Define parallel algorithm? Explain the design process of Parallel Algorithms.	. (10)
b	) Explain different methods for minimizing the interaction overhead.	(10)
Q.5 a	) Explain general model of shared memory programming.	(10)
b	) Explain synchronous and asynchronous message passing models.	(10)
Q.6	Write short notes on (Any 4)	(20)
<b>.</b>	a) issues in parallel sorting.	
	b) parallel programming models.	
	c) performance metrics for parallel systems	
	d) Cluster Computing.	
	e) systolic architecture.	•
•	f) PVM.	

Con. 12063-14.