Regi	strat	ion no:													
210	l Nur	nber of Pa	qes: ()2	210			210			210			210	B.Tech
											PECS5411				
8 th Semester / Regular Examination 2015-16 PARALLEL AND DISTRIBUTEDSYSTEM BRANCH: CSE 210 210 210 Time: 3 Hours Max Marks: 70 Q.CODE: W254 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.															
210		210			210			210			210			210	
Q1		Answer the following questions:									(2 x 10)				
	•	What is V						_					0		
	-	· · · · · · · · · · · · · · · · · · ·													
	c)	(PRAMs)		Subc	iass	62 O	пга	ıane	ı ı aı	iuuii	ı acı	JE33	mac	IIIIIE	
210	d)	What is a		(po	ol₂m∈	odeľ	??	210			210			210	
	•	How UMA		•											
	,	What is C													
	-:	How deta	_			•							0		
	h)	What is the	ne Ma	aste	r-sla	ve n	node	i in l	-ara	illet a	aldor	ithm	17		

i) Maintaining of coherence memory explain these three states

j) What are the parameter require that determine the message

Q2 a) Explain the explicitly parallelism achieve by SIMD and

Q3 a) Explain the difference between store and forward and cut-

What is task decomposition? Define different type of

b) Explain message passing platform for parallel system.

b) What is superscalar execution explain with example?

such as shared, invalid and dirty.

passing communication?

through routing technique

Decomposition.

MIMD.

Q4

(5)

(5)

(5)

(5)

(10)

Q5	a) b)	Explain Owner-compute rules 210 210 210 Explain how to maintain cache coherence in parallel system.	(5) (5)	210
	a)	What is multi stage omega Network explain interconnection establish among node with example ?	(5)	
	b)	What is static and dynamic mapping technique? Give example on each.	(5)	210
Q7	a)	What is binary reflected gray code? How the mapping technique help in linear array and hypercube to send message from one node to another node.	(5)	
	b)	What is One-to-All and All-to-One broadcasting of data transfer in parallel system?	(5)	
210		210 210 210 210 210		210
Q8		Answer any TWO of the following	(5 x 2)	
210	a) b)	Prefix-sum operation. Speed up in parallel system		210
	c) d)	Cannon's matrix algorithm. Snoop caches.		