Total No. of Questions: 10]	SEAT No.:
P3311	[Total No. of Pages : 2

[5353]-186

		T.E. (Computer Engineering) (Semester - II)	
P	RIN	CIPLES OF CONCURRENT AND DISTRIBUTED)
		PROGRAMMING	
		(2012 Pattern)	
		Hours] [Max. Marks .	: 70
Insti		ns to the candidates:	
	<i>1)</i>	Answer Question 1 or 2, 3 or 4,5 or 6, 7 or 8, and 9 or 10.	
	2)	Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right indicate full marks.	
	4)	Assume suitable data if necessary.	
Q1)	a)	Explain how to count task dependency.	[6]
	b)	Write a note on MPI Java.	[4]
		OR	
Q2)	a)	What are features of lisp? List and explain application of LISP.	[6]
	b)	Explain the structure of YACC file.	[4]
Q3)	a)	Explain following terms related to Concurrency and Synchronization	n in
		detail -	[6]
		i) Critical Section	
		ii) Mutual Exclusion	
		iii) Dead Lock	
	b)	What is GPU? Explain the GPU architecture in detail	[4]
		OR	
Q4)	a)	Write a Java program for creating thread by implementing Runna interface.	able [6]
	b)	Explain Neural Networks parallel programming architectures.	[4]

Q5) a)	Explain workstation model and workstation-server model with neat diagram. [8]
b)	Explain following issues in design of Distributed Operating System -[8]
	i) Performance
	ii) Scalability
	iii) Heterogeneity
	iv) Security
	OR
Q6) a)	Explain various transparencies of a distributed system and how they are different from each other? Explain with example. [8]
b)	Explain minicomputer and processor-pool model with neat diagram. [8]
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Q 7) a)	Explain desktop virtualization and network virtualization. [8]
b)	Explain requirements for paravirtualized Xen guest domains. [8] OR
Q8) a)	Explain the Xen virtual environment and hypervisor. [8]
b)	Explain server and machine virtualization and storage virtualization. [8]
0)	Explain server and machine virtualization and storage virtualization. [6]
Q9) a)	Explain problem decomposition using multi GPU with an example. [8]
b)	Write and explain a CUDA program for Odd- Even Sort. [10]
	OR
Q10) a)	Explain various applications of cloud computing. [8]
b)	Write and explain a CUDA program for multiplication of two matrices.[10]