Total No.	of	Questions	:	10]
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SEAT No. :	
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## T.E.(Computer Engineering) PRINCIPLES OF CONCURRENT AND DISTRIBUTED PROGRAMMING

(2012 Course)(Semester-II) (End Semster)(310249)

,		•	lax. Marks: 70	
1) 2) 3) 4)	Answa Neat a Figur	the candidates: er Q1 or Q2,Q3or Q4, Q5 or Q6, Q 7 or Q 8, and Q 9 or Q10. diagrams must be drawn wherever necessary. es to the right indicate full marks. he suitable data if necessary.		
<b>Q1)</b> a)	Wri	te short note on basic user interface elements in GUI model.	[6]	
b)	Exp	plain shared-state concurrent model.	[4]	
		OR		
<b>Q2)</b> a)	Wh	at are the dependency relationships between two tasks?	[6]	
b)	Wh	at is the structure of a YACC file?	[4]	
<i>Q3)</i> a)	Wri	te short note on shared memory.	[6]	
b)	Exp	olain various types of parallelism.	[4]	
		OR		
<b>Q4)</b> a)	Wri	te a note on Handler's classification.	[6]	
b)	Def	ine speed up with respect to parallel algorithms.	[4]	
<b>Q5)</b> a)	Wh	at is DCE? Explain it along with its components.	[10]	
b)	Exp	plain the following terms with respect to operating system:	[8]	
	i)	System image.		
	ii)	Autonomy		
	iii)	Fault Tolerance Capability.		
		OR		

<b>Q6)</b> a)		What are various models used in distributed computing environment?	[10]
	b)	Why is scalability an important feature in the design of a Distributed Obscuss the guiding principles for design scalable distributed system	
Q7)	a)	What is Virtualization? Explain types of virtualization.	[8]
	b)	Explain the common approaches to virtual computer systems.	[8]
		OR	
<b>Q</b> 8)	a)	What is Xen domain? Also explain hypervisor.	[8]
	b)	What are the hardware-related issues that should be considered we specifying the physical systems that will host the virtual machines?	hile [ <b>8</b> ]
Q9)	a)	Explain global memory in CUDA.	[8]
	b)	How CPUs and GPUs are different?	[4]
	c)	Write short notes on:	[4]
		CUDA threads	
		CUDA blocks	
		OR	
Q10	<b>)</b> a)	Explain threads in CUDA. Also explain problem decomposition.	[8]
	b)	Explain texture memory in CUDA.	[4]
	c)	Write short notes on:	[4]
		• CUDA grids	
		• CUDA Kernels	

