Total No. of Questions : 10]		SEAT No. :
P1507	[#ACO] 40C	[Total No. of Pages : 2

## [5460]-186

## T.E. (Computer Engineering) PRINCIPLES OF CONCURRENT AND DISTRIBUTED PROGRAMMING

(	PROGRAMMING (2012 Course) ( Semester - II) (End - Semster) (31	0249)
Time: 2½ Hours] [Max. Marks: 76		,
1) 2) 3) 4) Q1) a)	ions to the candidates:  Answer Questions 1 or, 2, 3 or 4, 5 or 6, 7 or 8, and 9 or 10.  Neat diagrams must be drawn wherever necessary.  Figures to the right indicate full marks.  Assume suitable data if necessary.  Write a LISP program to reverse a given string without function.	[6]
b)	What is Data Flow Variables? Explain in detail.  OR	[4]
<b>Q2)</b> a)	Explain how a file is used for IPC.	[6]
b)	What are advantages and application of LISP?	[4]
Q3) a)	Explain classification of parallel architecture.	[6]
b)	Write short note on shared memory.	[4]
	OR	
<b>Q4)</b> a)	Define Speed up with respect to parallel algorithms.	[6]
b)	Write a note on Shore's classification.	[4]
<b>Q5)</b> a)	What is DCE? Explain it along with its components.	[8]
(b)	Explain the following terms with respect to operating syst	
• )	i) System image.	[0]
	ii) Fault Tolerance Capability.	
	OR	
<b>Q6)</b> a)	Why is scalability an important feature in the design of a D Discuss the guiding principles for design scalable distributions.	
b)	Enlist and explain various models used in distribute environment.	
		<i>P.T.O.</i>

<i>Q7)</i>	<ul><li>a)</li><li>b)</li><li>c)</li></ul>	Explain Domain0 in Xen.	[8] [4] [4]
Q8)	a)	Explain virtualization with respect to- i) Types ii) Need iii) Advantages iv) Limitations	[8]
	b) c)	Explain difference between para virtualization and full virtualization? Why virtual server is used? State its advantages and disadvantages.	
Q9)	a) b)	1 0 1	[8] 10]
Q10)	<b>)</b> a) b)	Explain multi-GPU model in single-node systems in CUDA.  Explain the concept of cloud computing with respect to the following	[8] ing 10]

