

Total No. of Questions :6]

SEAT No.:	
-----------	--

P156

APR. -16/BE/Insem. - 80

[Total No. of Pages:1

B.E. (Computer Engineering) HIGH PERFORMANCE COMPUTING (2012 Pattern) (410450) (Semester - II)

Time: 1	Hour] [Max. Marks :	30
Instructi	ions to the candidates:	
1)	Answer any three questions.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Assume suitable data if necessary.	
<i>Q1)</i> a)	Explain Control structure of Parallel Platforms in detail.	4]
b)	Explain basic working principal of Super scalar processor.	6]
	OR	
<i>Q2)</i> a)	Differentiate between write - Invalidate and Write - Update Protocol. [6]	6]
b)	Describe the merits of Multi-threading over Pre-fetching technique. [4]	4]
<i>Q3)</i> a)	Explain Recursive Decomposition with suitable example.	5]
b)	Explain Graph partitioning with suitable example.	5]
	OR	
Q4) a)	Differentiate between spatial and temporal locality of reference. Enli	st
	1' ' 1 ' 1 ' 1 ' 2 1	6]
b)	Write a note on NVIDIA Tesla GPU.	4]
<i>Q5)</i> a)	Illustrate MPI routines.	4]
b)	Write note on: Topologies and Embedding.	6]
	OR	
Q6) a)	Explain Non-Blocking communications using MPI.	4]
b)	WILL COLUMN	-
	WILL COLUMN	4]

