Total No. of	Questions:	8]
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SEAT No. :	
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P4376

[Total No. of Pages: 2

[5462]-662

M.E. (E & TC) (VLSI and Embedded Systems) RECONFIGURABLE COMPUTING

RECONFIGURABLE COMPUTING					
		(2017 Pattern)			
Time	e:3	[Max. Marks	: 50		
Insti	ruct	tions to the candidates;			
	1)	Answer any five questions.			
	2)	Neat diagram must be drawn wherever necessary.			
	3)	Figures to the right side indicate full marks.			
	4)	Use of Calculator is allowed.			
	5)	Assume suitable data if necessary.			
Q 1)	a)	Explain about flow of program execution for Von Neumann comp	uter		
		architecture.	[5]		
	b)	What is mean by instruction level parallelism, Explain through Example	e.[5]		
Q2)	a)	Explain with diagram single context and multi-context configuration.	[4]		
	b)	Explain DSP processor as domain specific processor, give exampl	e of		
		DSP processor.	[3]		
	c)	Elaborate application of Reconfigurable Computing.	[3]		
Q3)	a)	With labelled diagram, Explain PAM as Reconfigurable compuplatform.	ting [4]		
	b)	Explain partial reconfiguration. w.r.t ASICS.	[3]		
	c)	Explain FPGA design flow with necessary diagram	[3]		
Q4)	a)	Explain Relocation and Defragmentation w.r.t.RC point of view.	[5]		
	b)	Explain Integration of RPF into Traditional Computing Systems. A explain RaPiD Architecture.	Also [5]		
Q5)	a)	With the flow diagram explain FPGA flow design.	[5]		
~ ′	b)	Explain Non-frequently reconfigurable systems and its application.	[5]		

Q6)	a)	Discuss Run time reconfiguration and compile time reconfiguration. [4]		
	b)	Draw diagram and explain the transfer of System from PCB to System Programmable chip.	tem [4]	
	c)	Write note on FPGA design tools.	[2]	
Q7)	a)	Explain pattern matching as application of Reconfigurable Computing	;. [5]	
	b)	How RC is useful for video streaming.	[5]	
Q8)	a)	Elaborate Reconfigurable Computing for Software Defined Radio.	[5]	
	b)	Relate and explain High performance computing and FPGA.	[5]	
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