Total No. of Questions: 8]	SEAT No.:
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[5355]-662

## M.F. (F & TC) (VI SD & Embedded Systems)

		M.E. (E & IC) (VLSP & Embedded Systems)	
		RECONFIGURABLE COMPUTING	
		(2017 Pattern)	
Time	e:3 E	Hours] [Max. Marks :	<i>50</i>
Instr	ructio	ons to the candidates:	
	1)	Answer any five questions.	
	<i>2)</i>	Neat diagram must be drawn wherever necessary.	
	3)	Figures to the right indicate full marks.	
	4)	Use of calculator is allowed.	
	5)	Assume suitable data if necessary.	
Q1)	a)	Give Von Neumann computer architecture and explain its flow for prograte execution.	m <b>4</b> ]
	b)	Compare Fine grained & Coarse-Grained fabrics in FPGA.	4]
	c)	Write short note on Application specific processor.	2]
<b>Q</b> 2)	a)	Explain with diagram single context and multi-context configuration.	4]
	b)	Explain DSP processor as domain specific processor, give example DSP processor.	of <b>3</b> ]
	c)	Explain the significance of Reconfigurable Computing w.r.t. interconnec	ts. 3]
<b>Q</b> 3)	a)	With labelled diagram, Explain PAM as Reconfigurable computing platform.	ng <b>4</b> ]
	b) c)		3] 3]

Q4)	a)	Explain Relocation and Defragmentation w.r.t. RC point of view.	[5]
	b)	Explain Integration of RPF into Traditional Computing Systems. Al explain RaPiD architecture.	lso [ <b>5</b> ]
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Q5)	a)	Explain in detail the main components of system on programmable Ch	ip. <b>[5]</b>
	b)	Explain Non-frequently reconfigurable systems and its application.	[5]
Q6)	a)	Explain performance parameters of FPGAs and Computation Characteristics.	nal [ <b>4</b> ]
	b)	Draw diagram and explain the transfer of System from PCB to System on Programmable chip.	em [ <b>4</b> ]
	c)	Write note on FPGA design tools.	[2]
<b>Q</b> 7)	a)	Explain pattern matching as application of Reconfigurable computing.	[5]
	b)	Write short note on: Architecture of an adaptive cryptographic system.	[5]
Q8)	a)	Elaborate reconfigurable Computing for Software Defined Radio.	[4]
	b)	Explain about Compile-time reconfiguration & Run - time reconfiguration	on. [ <b>3</b> ]
	c)	What are the communication protocol involved in a network.	[3]