S.E. I.T (IV) (CB4s) COA

10/12/15

Q.P. Code: 5461

		(3 Hours)		[Total Marks :80	
N.B	. : 1	1) Ouestic	on No.1 is compulsory		
			any three questions out of remaining five quest	ions.	1
		CO. CO. CO. CO.	e suitable data if necessary.		1
		3) Assum	e suitable data il ficcessur y.		
			C 09		20
1.	Sol	Solve any four out of five. (a) Differentiate between RISC and CISC			
		(a) Diff	remulate between RISC and CISC		
		(b) Wha	at are the functions of following registers? (i) PC (ii) SP (iii) MAR (iv) MDR (v) IR		
		/ \ 777.1	te a note on interrupt execution.	All and	
		(c) Wri	ine Stored Program Concept and draw Von-Neuma	ann's architecture.	
			at is meant by nanoprogramming?		
		(e) Wh	at is meant of nanoprogramming.		
•	(-\)	Multipla	(-3) and (4) using Booth's Algorithm.	5.5	10
2.	(a)	Fundain 6	stage instruction pipeline with suitable diagran	n.	10
	(b)	Explain	stage matterion pipeline		
2	(0)	Compare	SRAM & DRAM.		
3.	1000	Consider	the string 1 3.2.4.2.1.5.1.3.2.6.7.5.4.3.2.4.2.3.1,	4	10
	(p)	Find the	page faults for 3 frames using FIFO and LRU	page replacement	10
		algorithm	Political Control of the Control of		
		argorran			4
4	(a)	Divide 1	1 by 2 using restoring division algorithm.		10
7.	(b)	What is n	neant by Fetch cycle, Instruction cycle, Machine of	cycle and interrupt	10
	(0)		xplain in brief.		
		77. 1 7. 17. 10. 10. 1			
5.	(a)	Explain	different mapping techniques of Cache memory.		10
	(b)	What is	virtual memory? Explain the role of paging an	d segmentation in	10
	(-)	virtual n			
6.	(a)	Explain	different addressing modes with example.		10
1886	(b)	What is	the need of DMA? Explain its various technique	es of data transfer.	10