27/5/15

S.E. Serm IV (CBGS). (Computer & I.T.) COA

N.B.:- (1) Question no.1 is compulsory.

QP Code: 3546

(3 Hours)

Total Marks: 80

		(2) Solve any three questions out of remaining five questions.	
		(3) Assume suitable data if necessary.	
1.	(a)	What are applications of Microprogramming?	3
	(b)	What is stored program concept in digital computer?	3
	(c)	List the Flynn's Classification of Parallel Processing Systems.	3
	(d)	Draw flowchart for Booth's Algorithm for Twos Complement Multiplication.	3
	(e)	What is Associative memory?	4
	(f)	Explain in brief Programmed I/O.	4
2.	(a)	Explain with diagram functioning of Hardwired Control Unit.	8
	(b)	Using Unsigned Binary Division method, divide 7 by 3.	6
	(c)	Explain IEEE 754 standards for Floating Point number representation.	6
3.	(a)	Describe what are the features of cache design?	8
	(b)	What are the differences between RISC and CISC processors?	6
	(c)	Explain concepts of Nano programming.	6
4.	(a)	What are major requirements for an I/O module?	6
	(b)	Explain in details Virtual Memory, Segmentation and Paging.	7
	(c)	Explain in details Cache Coherency.	7
5.	(a)	What is instruction pipelining? what are advantages of pipelining?	6
		Explain DMA based data transfer technique for I/O devices.	7
		Explain Microinstruction sequencing and execution.	7
	(-)	Explain Micromstruction sectoricing and execution.	
ნ. '	Writ	e short note on:	
		Pipeline Hazards.	7
	(b)	Scanner.	7
	(c)	Interrupt driven I/O.	6
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