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[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

N.B:

- 1. Question.No.1 is compulsory.
- 2. Solve any three questions out of remaining five questions.
- 3. Assume suitable data if necessary
- 4. Figures to right indicate marks

Q. 1 Attempt any 4 sub questions.

	a)	Define the terms Computer Organization and Computer Architecture.	(05)
		Draw and explain single and double precision IEEE 754 binary floating point representation formats.	(05)
	-1		1051
	c)		(05)
	d)	Draw and explain five stage instruction pipelining.	(05)
Y	e)	Explain Programmed I/O technique of Data transfer.	(05)
Q. 2	a)	Calculate the number of page hits and faults using FIFO, LRU and OPTIMAL page replacement algorithms for the following page frame	(10)
		Sequence: 5,6, 6, 3, 8, 5, 7, 8, 6, 5, 8, 5. (FRAME SIZE = 3).	
	b)	Draw and explain basic instruction execution cycle.	(10)
Q. 3	a)	Explain memory hierarchy of a computer.	(10)
	b)	Describe Flynn's classification in detail.	(10)
Q. 4	a)	Describe different addressing modes.	(10)
	211000	Draw the flowchart of Booths algorithm and multiply (6)*(-4) using Booths algorithm.	(10)
Q. 5	al	Explain interrupt driven I/O technique of Data transfer.	(10)
		Explain hardwired approach to the design of a control unit.	(10)
0.6		Write notes on (any three)	(20)
-2.0	-1	Register Organization of a processor	(20)
		Von Neumann architecture	
	6-35	Associative memory	
	100	Nano Programming	
	e),	Pipeline Hazards	

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