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Code No: RR220503		
(Co	II B.Tech II Semester(RR) Supplementary Examinations, December 2010 COMPUTER ORGANIZATION ommon to Computer Science & Engineering, Information Technology, Computer) Science
Time: 3 hours Max Marks: 80		
Answer any FIVE Questions		
All Questions carry equal marks		
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1.	(a) Explain the program flow of control with and without interrupts. Demonstrates with figures.	h suitable
	(b) Discuss the ideal situations for short and long I/O wait.	
	(c) How multiple interrupts will be handled.	[6+6+4]
2.	 (a) Multiply the following binary number i. 1110 and 0111 ii. 101110 and 101011 	
	(b) How is floating point multiplication performed?	
	(c) Explain about excess 50 form	[6+6+4]
3.	NOOP instruction has no effect on the CPU state other than incrementing the program	1 counter.
	Suggest some uses of this instruction with examples.	[16]
4	(a) Discuss the motivation for CISC	[-]
4.	(b) Differentiate between CISC and RISC characteristics	[8+8]
5.	(a) Discuss the principles of associative memory.(b) Explain the functioning of 4 x 4 bit associative memory array.	
	(c) Explain the cache with two-way set-associative addressing	[6+4+6]
6	(a) Discuss the changes in memory and register for an interrupt in interrupt-driven I/O	
0.	(b) Differentiate between programmed I/O and interrupt-driven I/O.	
	(c) Explain about simple interrupt processing with the help of a flow chart.	
		[6+4+6]
7.	(a) Differentiate between micro programmed and hard wired control units with merits and of each.	l demerits
	(b) Discuss about the design considerations of micro instruction sequencing technique.	[8+8]
8.	(a) Differentiate between two-stage and four-stage pipelines	
	(b) Discuss the demerits of pipelined processing.	[10+6]
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