FACULTY OF INFORMATICS

B.E. 2/4 (IT) (II-Semester) (Supplementary) Examination, January 2011 COMPUTER ORGANIZATION & MICROPROCESSOR

Time	e: Three Hours]	[Maxim	ium Marks : 75	
	Answer ALL questions of Part A. Answer FIVE questions from	n Part	B	
	PART—A (Marks: 25)			
1.	Explain the purpose of system software.		2	1
2.	Explain distributed arbitration scheme.		3	,
3.	What is memory interleaving?		3	
4.	Explain memory hierarchy.		3) :
5.	What is meant by hardwired control?		3	è
6.	Write about full adder.			
7.	Explain about alignment directives.		i Cho	
8.	Write about EPROM, EEPROM.		2	
9.	Write about DMA.		4	j
10.	What are interrupt routines?		. 2	
	PART—B (Marks: 50)			
11.	(a) Draw and explain functional units of a computer.			rimedia
	(b) Explain performance with respect to :—		(Ś
	(i) Processor clock			
	(ii) Instruction set			
	(iii) Clock rate			
	(iv) Compiler			
	(v) Performance Equation	*		
	(vi) Pipelining and Scalar Operations.			
12.	Explain different mapping functions.			
13.	Explain in detail about two techniques for fast multiplication with example	es.	,	
14.	Discuss about address computation and memory segmentation of 8086.			
15.	Write about branch and loop instructions of 8086.			
16.	What are the fundamental I/O consideration and explain programmed I/O).		
17.	Explain about :			
	(a) Virtual memory Organisation			
	(b) Addressing modes of 8086.			