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END TERM EXAMINATION

SECOND SEMESTER [MCA] MAY-2008

Paper Code: MCA- 106	Subject: Computer System Architecture	
Paper Id: 44106	(Batch: 2004-2007)	
Time: 3 Hours	Maximum Marks: 60	

Note: Q. 1 is compulsory. Attempt four questions from rest of the paper taking one question from each unit.

Q.1	(a)Explain the steps of an instruction cycle.		
(b)Explain the different addressing modes.		(4)	
	(c)What is the difference between pipeline and vector processing?		(4)
	(d)	What is DMA?	(4)
	(e)	What is associative memory?	(4)

UNIT - I

Q2.	(a)	Explain all arithmetic and logic micro-operations. Explain their implementation.	(10)			
Q3.	(a)	Discuss the design of accumulator logic.	(10)			
	UNIT - II					
Q4.	What	is the purpose of pipelining? Explain the architecture of a pipelined computer.	(10)			
Q5.	What	is the need of array processor? Discuss their architecture.	(10)			
UNIT - III						
Q6.	How d examp	lo you perform floating point arithmetic operation? Discuss the algorithm with le	(10)			

Q7. What is the purpose of IO-processor? Explain its architecture. (10)

UNIT – IV

Q8.	What is paging? Explain its hardware implementation.	(10)
Q9.	What are the characteristics of multiprocessors? Discuss the methods of synchronization multiprocessor architecture.	in (10)
