NEW SCHEME

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Fourth Semester B.E. Degree Examination, January/February 2006 Common to BM/EC/EE/TE/ML/IT/CS/IS Computer Organisation

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Time:	3 hrs	s.)	ax.Marks: 100
		Note: 1. Answer any FIVE full questions. 2. All questions carry equal marks.	
1.	(a)	Explain in brief the evolution of computer system.	(6 Marks)
(3/8)		What is pipelining? How does it improve the performance?	(8 Marks)
	(c)	Write a short note on multiprocessor and multi computers.	(6 Marks)
2.	(a)	Explain various types of rotate instructions	(6 Marks)
	(b)	Explain the features of RISC processor.	(8 Marks)
	(c)	Write the instruction format MOV AX CX instruction.	(6 Marks)
3.	(a)	What are condition code flags? Explain the use of them.	(6 Marks)
	(b)	Explain basic instruction types with the help of examples.	(4 Marks)
	(c)	What is an addressing modes? Explain different types of addressing	modes. (10 Marks)
4:	(a)	Draw and explain the timing diagram for modified synchronous input	data transfer
		with multiple clock cycles.	(6 Marks)
	(b)	Which type of I/O devices are interfaced through DMA? Explain the	
		process used for DMA?	(10 Marks)
	(c)	Give comparison between memory mapped I/O and I/O mapped I	/O. (4 Marks)
5.	(a)	Explain various types of SCSI bus termination.	(5 Marks)
	(b)	Explain the features of USB.	(5 Marks)
	(c)	Describe SDRAM and DDR SDRAM operations for data transfer b	etween main
		memory and cache memory system.	(10 Marks)
6.	(a)	In a two level virtual memory, $tA_1=10^{-7}$ and $tA_2=10^{-2}S$. What memory	nust be the hit

ratio 'H' in order for the access efficiency to be atleast 90 percent of its maximum

possible value.

(5 Marks)

(b) Compare flash drives with hard disk drives.

(5 Marks)

(c) Draw the disk controller interface connection and explain the major functions of disk controller. The Western Burkers are to be a to the second of the secon

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(a) Write a short note on look ahead carry generator.

(5 Marks)

(b) Explain how Booths algorithm is suitable for signed number multiplication in comparison of conventional shift and add method.

(10 Marks)

(c) Draw and explain typical hardwired control unit. (5 Marks)

8. (a) Draw and explain the multiple bus organisation. Explain its advantages. (10 Marks)

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(b) With a block diagram, explain the operation of a digital camera?