Sem-VI (CBGS) ETRX 2015/16.

Computer Organization

Q.P. Code: 591801

		(3 Hours) [Total Marks : 8	80
N.I	(Question No.1 is compulsory. Attempt any Three questions from remaining questions. All questions carry equal marks. Figures to the right indicate full marks. 	
1.	` /	Expidin Single and accept processing formation for the first of the first series of th	5
	(b)	representation. Write in brief on nano-programming. Draw Register structure of IA-32 family.	5
	` /	Explain SIMD computer organization.	5
2.		improve the performance of the system.	10
	` /	What is microprogramming? Draw and explain Micro programmed control unit.	10
3.	(b)	Explain bedactive country into the action of the pro	10 10
4.		What are the different cache mapping techniques? Consider a cache consisting of 128 blocks of 16 words each, for a total of 2048 (2k) words and assume that the main memory is addressable by a 16 bit address and it consists of 4k blocks. How many bits are there in each of the TAG, BLOCK SET and WORD fields for different mapping techniques.	10
		Explain in brief about various DMA transfer modes.	10
5.	\ /	Explain Address translation with respect to virtual memory. Hence explain use of Translation Look aside Buffer (TLB).	10
	(b) (c)	Compare RISC and CISC architectures. Write a note on addressing modes of IA- 32 family.	5
6.		minimize the hazards.	10
		What is bus contention? How is it resolved by using bus arbitration? Explain various bus arbitration methods.	10