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## CULARAT TECHNOLOGICAL UNIVERSITY

		DE CEMECTED IV (OLD) EVAMINATION WINTED 2010	
Sub	loot	Determine The Cold (OLD) = CAMMINATION - WINTER 2010 $Codo: 140701$ $Doto: 28/11/2019$	
Subject Code: 140701 Date: 20/11/2018 Subject Name: Microprocessor And Interfacing Time: 02:30 PM TO 05:00 PM Total Marks: 70			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	i. Distinguish between assembly language and high level languages.	04
		ii. Explain flag register in 8085.	03
	(b)	i. Explain functioning of following pins of 8085.	04
		(1) ALE (11) KEADY (111) INTR (1V) HOLD.	02
		II. The memory map of 8K byte memory chip begins at the location 8000 H. Specify the address of the last location on the chip	03
		speeny the address of the fast focation on the emp.	
Q.2	$(\mathbf{a})$	Compare memory mapped I/O with I/O mapped I/O.	07
	(b)	Explain execution of instruction LDA 3000H with timing diagram.	07
	<b>(b)</b>	Explain execution of instruction OUT F0H with timing diagram.	07
03	<b>(</b> a)	What is stack and stack pointer? Explain working of PUSH and POP	07
Q.0	( <b>u</b> )	instructions with suitable example.	07
	(b)	What do we mean by Addressing Modes? Explain, giving suitable example, all	07
		the addressing modes supported by 8085.	
		OR	
Q.3	(a)	Write a program to generate delay of 50 msec. Make necessary assumptions and	07
	<b>(b</b> )	mention it clearly.	07
	(D)	Explain following instructions of 8085. (i) LDA and LDAX (ii) RAL and RLC (iii) DAA	07
		(1) EDA and EDAA (11) KAL and KLE (111) DAA	
Q.4	(a)	Data block of ten data bytes is stored in memory starting from locations 2000H.	07
		Write a program to count even numbers in this data block. Store the result in	
	(h)	List various vectored interrupts in 8085 Give their vectored locations	07
	(0)	triggering methods and priority.	07
		OR	
<b>Q.4</b>	(a)	A binary number is stored in memory location 2000H. Write a program to	07
		convert it into equivalent unpacked BCD representation. Store result in	
		consecutive memory locations starting from 3000H with most significant digit	
		stored first.	~-
	(b)	Explain the function of RIM and SIM instructions in 8085.	07
Q.5	(a)	Draw and explain block diagram of 8255.	07
	<b>(b</b> )	With neat diagram discuss working of IC 8259A -Programmable interrupt	07
		controller.	
05	(-)	<b>UR</b> Explain with block diagram function of 8254 programmable interval times	07
Q.3	(a) (b)	Explain with block diagram function of \$254 programmable interval timer. What is direct memory transfer? Explain \$257 DMA controller with block	U/ 07
	(U)	diagram.	07
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