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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2018			
Subject Code:2140304 Date:28/1			1/2018
Subject Name: Microprocessor & its Interfacing			
Time: 02:30 PM TO 05:00 PM Total Marks: 7			
Instructions:			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
			MARKS
Q.1	(a)	Explain R/2R ladder network circuit used in D/A converter.	03
	(b)		04
	(c)		07
		bit microprocessor?	
Q.2	(a)	Explain various addressing modes of 8085.	03
	(b)		04
		using a 74LS138 3-to-8 decoder, a 74LS20 4-input NAND gate, a	
	(a)	74LS02 NOR gate and a common anode seven segment LED. Interface 32K EPROM and 32K RAM with 8085, mention the address	07
	(c)	range for both. Draw neat schematic.	07
		OR	
	(c)	C C	07
01	(-)	(preferably 1408) with 8085, with necessary addressing scheme.	02
Q.3	(a)	Sixteen bytes of data are stored at location C000H to C05FH. Write a program to transfer the entire block to new location starting at D000H.	03
	(b)		04
	()	location starting at D000H.	•••
	(c)		07
		00Hin a system with a $0.5\mu$ S clock period. Display the number on any	
		output port.	
Q.3	(a)		03
		I/O.	
	(b)		04
	(c)	location starting 3000H. Write a program to generate rectangular wave with period of 200 $\mu$ S	07
	(0)	ON- period and 400 $\mu$ S OFF- period.	07
Q.4	(a)		03
		converter with figures.	0.4
	(b)	Explain the concept if Interrupt in 8085. How many Interrupts are there in 8085? What is vector location and how it is mapped?	04
	(c)		07
		OR	
Q.4	(a)	-	03
	$(\mathbf{b})$	• • •	04 07
	(c)	Interface. How it is useful for 8085?	07
Q.5	(n)		03
Q.3	(a) (b)		03 04
	(~)	instruction.	~ -



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## OR

- (a) Explain Control word of 8155 Multipurpose programmable device. 03 Q.5
  - 04 (b) Explain Bus organization of 8085.
    - With neat schematic explain working of 8259 Programmable Interrupt 07 (c) Controller.

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