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8R	No: 136CT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSIT B. Tech III Year II Semester Examinations, December MICROPROCESSORS AND MIC	er - 2019
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions of 5 Units. Answer any one full question from each unit 10 marks and may have a, b, c as sub questions. PART - A	stions in Part A. Part B t. Each question carries (25 Marks)
1.a) b) c) d) e) f) g) h) i) j)	What is the need of memory segmentation? Give the interrupt vector table. When sign flag and zero flag will set? Draw the PSW in 8051 microcontroller. What is the need of ADC and DAC's in 8051? Draw the hardware diagram to acquire data using 8-bit ADC? Name any two branch instructions of ARM processor. Draw the vector table. What are the major address ranges in CORTEX processor? Name the specifications of OMAP1. PART B	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [50 Marks)
2.a) b) 3.a) b) 4.a)	List the addressing modes of 8086 and give example to each on Explain the function of the following instructions: i) AAM ii) IDIV iii) INTO OR Describe the steps that 8086 will take when it responds to an in What is meant by nested interrupt? Explain with an example. Explain how data exchange takes place in 8051 microcontrolle	[5+5] S S R atterrupt. [5+5]
5.a) b)	Two 2-digit BCD numbers are at consecutive memory ad Compute the difference of the two numbers and store the result on the Pop instructions with examples. Binary numbers are stored at consecutive data memory and the numbers in descending order.	t at location r. [313]

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6.a) b)	How do the di Write a progunknown period	odic wave.	otor is controlled OR frequency by m	l using microcon easuring the tin	ntroller? ne for m cycles fr-8 coded keypad	OK	
8.a) b) 9.a) b)	Write about A		struction set and OR rupt structure of	16-bit microcom	\bigcirc \square	[5+5] 16-bit [5+5]	
10.	organization.		OR	·	r features in brief	[10]	The Apple
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