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AG	No: 135BF  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAL  B. Tech III Year I Semester Examinations, November/December - 2018  MICRÓPROCESSORS AND MICROCONTROLLERS  (Common to EEE, EIE)  Max. Mar	AG.	<u> </u>
Note:	This question paper contains two parts A and B.		
AG.	Part A is compulsory which carries 25 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub questions.  PART—A	Part B carries  Alarks)	/
1.a) b) c) d) e) f) g) h)	What is meant by register organization in 8086 microprocessor?  What is meant physical memory organization in 8086 microprocessor?  Write an overview of 8051 microcontroller.  Describe about the memory organization in 8051 microcontroller.  Write a short notes on RAM and ROM:  What is meant by ADC and DAC?  Draw the ARM core data flow model.  Write short notes on registers in ARM.	[2] [3] [2] [3] [2] [3] [2] [3]	_
i) j)	Mention the features of low cost debug solution in CORTEX.  Mention external interfaces on Cortex processor.  PART-B  (50 N	[2] [3] Aarks)	/
2.	Explain the architecture of 8086 microprocessor with a neat sketch.  OR	[10]	
3.a) A ( ) b)	Explain about the minimum mode pin diagram of 8086 microprocessor.  Describe the assembler directives of 8086 microprocessor.	[5+5]	4
4.a) b)	Explain about TCON special function register with a diagram in 8051 microcontroller.  OR	oller. [5+5]	
5.a) b) 6.a) b)	Mention about the programming of timer interrupts.  Write short notes on external hardware interrupts.  Explain about the interfacing of ADC with 8051 microcontroller.  Draw a neat sketch of DAC to be interfaced with 8051 microcontroller.  OR	[5+5] [5+5]	4
7.a) b)	Explain about the architecture of UART to be connected to 8051 microcontroller. Write short notes on serial communication standards.	[5+5]	
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	8. 9.a) b) 10. 11.	Draw and exp	[10] [5+5] [10] [10]	<u> </u>				
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