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Cod	le No: 126VM	R15	
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAB	AD	
	B. Tech III Year II Semester Examinations, April - 2018 MICROPROCESSORS AND MICROCONTROLLER'S (Common to ECE, ETM) Max. Max. Max. Max. Max. Max. Max. Max.	Arks: 75	/
Note	e: This question paper contains two parts A and B. 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		
AG	10 marks and may have a, b, c as sub questions. PART-A (25)	Marks)	1
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1.a) b) c) d) e) f) g)	When does the 8086 processor is in minimum mode and maximum mode? List different types of 8086 hardware interrupts. Write the different logical instructions of 8086. Give the advantages of assembly language over machine language. Give the RS 232 Standard details. List out the important features of the A/D converter. What is push and POP instructions in 8051?	[2] [3] [2] [3] [2] [3] [2]	<u> </u>
h) i) j)	What is the difference between microprocessor and micro controller? Draw the read cycle timing diagram for 8086 under minimum mode of operation How does effect the SBUF SFR in serial communications of 8051? PART-B (50	[3] n. [2] [3] Marks)	
2.a) b)	Explain the concept of segmented memory. What are the advantages? Describe the implementation of pipelined process of 8086. OR	[5+5]	
<u> </u>	Explain the internal hardware architecture of 8086 microprocessor with neat dia		Λ
AQ.	AG AG AG AG	[40]	/
4.a) b)	Write an 8086 ALP to find the sum of numbers in the array of 10 elements. Explain any five assembler directives of 8086 with suitable examples. OR	[5+5]	
5.a)	Write an assembly language program (ALP) which counts the number of A's and		
<u></u>	a string of characters Explain the function of the following instructions. (i) AAD (ii) MOVSB (iii) LAHF (iv) JNZ (v) LEA (vi) DAD	[5+3]	<u> </u>
6.a) b)	Explain the briefly the different modes operation of 8255 PPI. Draw and explain the synchronous mode transmitter and receiver data formats of		
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