Code No: 126EM

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016 MICROPHOCESCOPS AND MICROCONTROLLERS

Time: 3 hou	(Co	ommon to ECE, BME)		ax. Marks: 75
Note: This of Part A	uestion paper contains to is compulsory which c ts of 5 Units. Answer an rks and may have a, b, c	årries 25 marks. Answe y one full question from	er all questions in each unit. Each c	Part A. Part B uestion carries
**** ****,		PART - A	X Y Y Y X X Y X Y X Y X Y X Y X Y X Y X	(25 Marks)
*** ****	XX0 9 6	* * * * * ×	xxx × ×	
b) Draw c) Expla d) List t e) Draw f) Expla g) Expla h) List t	ut different segmentation the flag register of 8086 in one byte and two byte he data transfer instruction the BSR mode frame for in the concept of interrupin register set of 8051 M ut the difference between the T0 and T1 registers of the hard ware interrup	Microprocessor and expinstruction frame format nest of 8086 microprocemat. Set service routine of 808 icrocontroller. In microprocessor and microf 8051 microcontroller.	tessor. 6 microprocessor.	[2] [3] [2] [3] [3] [2]
*******	*** * * × × × × × × × × × × × × × × × ×	PART - B		
		TAKT - D		(50 Marks
1 · 8 · · · · · · T? 1	the register organization in the minimum mode pi in the concept of physica	ns of 8086 Microproces	ssor in detail.	sor. [3+3+4]
b) Drav	the internal architecture the timing diagram of m	of 8086 microprocesson inimum mode write ope	eration and explain	11. [3+3
Mior	pprocessor with examples out different assembler	\$		
		OR		
	e an assembly language	program to find the la		2 2 2 4
b) List	the string manipulation	instruction set of 8080	6 microprocessor	with example [5+

	b) Draw its ope 7.a) Expla b) Expla 8.a) Draw b) Draw 9.a) Expla	the interacting of eration. in the concept of the internal arch the PSW and TO in the different for the pin diagram	keyboard and in methods of serial itecture of 8051 CON registers of utures of 8051 m	OR Iterfacing along value communication Microcontroller 8051 microcontroller OR icrocontroller in	with block diagran with examples. and explain its opposite.	[5+5] m. [5+5] peration. [5+5]	
	b) Draw	the SCON regis	ter frame format nstruction set of 8	and explain it. O R 8051 microcontr	icrocontroller wit oller and explain in 8051 microco	[5+5] with examples.	
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