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BIEL-008

B.Tech. - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING

(BTECVI)

Term-End Examination, 2019

BIEL-008: MICROCONTROLLERS

	C. 3 HU	oursj Maximum M	Maximum Marks : 70 		
Note		wer any seven questions. All questions ca	irry equal		
	Illair	ks. Use of scientific calculator is allowed.			
1.	(a)	Compare RISC and CISC CPU archite	cture.		
,			[5]		
•	(b)	Draw the block diagram of Microcontrescention explain each block in detail.	oller and [5]		
2.	(a)	Explain the Memory Organization in 805 controller.			
	(b)	Write an Assembly Program in 8051 to 16-bit numbers stored in external mem			
3.	(a)	Name the Interrupts of 8051. How can enabled and disabled?	they be		
BIEL-008		(1)	[P.T.O.]		

		of timer	in 8051.	[5]	
4.	(a)	·	Stack and Stack Pointer. With the mple explain Stack Organization.	help of [5]	
	(b)	Name instruct	the addressing modes of foll	owing [5]	
		(i)	MUL AB		
		(ii)	DAA		
		(iii)	MOV B, # o4H		
5.	(a)	Explain	Serial Communication Procedure in	n 8051. [5]	
	(b)		and explain the interfacing diagram	of DC [5]	
6.	has a	nat does it mean when it is said that a given sensor is a linear output? Draw 8051 connection to ADC 0848 d Temperature Sensor.			
7.	With the help of diagram show LCD connections to 8051 and explain its functioning. [10]				

(2)

With a suitable diagram explain various modes

(b)

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8.		and explain the block diagram of ADC and DAC. write down its applications. [10]			
9.	Find out to which byte each of the following bits belong. Give address of RAM byte in hex. [10]				
	(a)	SETB 42h,			
	(b)	CLR 47h,	•		
	(c)	CLR 12			
10.	Write	short notes on any two of the followin	ng : [2×5=10]		
	(a) Harvard and Von-Neumann architecture				
	(b)	Flags			
	(c)	PUSH and POP in stack			
		v			