	Reg. No.:										
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(d) parallel, bits

Question Paper Code: 44423

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Computer Science and Engineering

14UEC423 - MICROPROCESSORS AND MICROCONTROLLERS

(Common to Information Technology)

(Regulation 2014)

		(Regulat	1011 2014)					
	Duration: 1.15 hrs		Maximum: 30 Marks					
		PART A - (6	$6 \times 1 = 6 \text{ Marks}$					
		(Answer any six of t	he following quest	ions)				
1.	1. When a <i>CALL</i> instruction is executed, the stack pointer register is							
(a) Decremented by two			(b) Incremented by two					
	(c) Decremented	by one	(d) Incremented by one					
2.	Vector address of inte	errupt RST 7.5 is						
	(a) 0.002CH	(b) 0.002CH	(c) 0.003CH	(d) None of these				
3.	In 8086 each segmen	t register contains	Kbytes of	f memory.				
	(a) 8	(b) 16	(c)32	(d) 64				
4.	Which of the following	ng instruction is a log	gical instruction?					
	(a) DIV AB	(b) TEST	(c) CAI	LL (d) AAM				
5.	The 8087 coprocessor instruction	-	with an 8086 p	processor and with the same				
	(a) series, byte		(b) para	allel, byte				

(c) series, bits

6.	The synchronization between proconnection and the		e done by					
	(a) RQ/GT ₀ and RQ/GT ₁ , FW	/AIT (b) INT and	(b) INT and NMI, WAIT					
	(c) BUSY and TEST, FWAIT	Γ (d) S_0 and G	(d) S_0 and QS_0 , WAIT					
7.	n 8279, the keyboard entries are debounced and stored in an that is further accessed by the CPU to read the key codes.							
	(a) 8 -bit FIFO	(b) 8 - byte FIFO						
	(c) 16 byte FIFO	(d) 16 bit FIFO	(d) 16 bit FIFO					
8.	The 8279 is a							
	(a) DMA controller	(b) programmable keyb	(b) programmable keyboard display interface					
	(c) counter	(d) interrupt controller						
9. The 8051 has 16-bit Timer/Counter registers.								
	(a) 5 (b) 4	(c) 3	(d) 2					
10.	What will be the output after exec MOV A, #55 ANL A, #67	cution of the following instruction	on?					
	(a) 54 (b) 4	(c) 55	(d) 67					
	PART	Γ – B (3 x 8= 24 Marks)						
	(Answer any t	hree of the following questions	s)					
11.	1. Describe the Architecture of 8085 with neat explanation.							
12.	2. Explain the addressing modes of 8086 with examples.							
13.	3. List the various types of coprocessor configurations? Explain them in detail.							
14.	Show the function of keyboar	rd and display controller with a	neat sketch.	(8)				
15.	Draw the architecture of 8051	1 microcontroller and explain ea	ch block.	(8)				