Reg. No.:					

(d) parallel, bits

## **Question Paper Code: 54423**

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

## Fourth Semester

Computer Science and Engineering

(Common to Information Technology)

## 01UEC423 - MICROPROCESSORS AND MICROCONTROLLERS

(Regulation 2013)

		(===8====	,				
	Duration: 1.15 hrs		Maximum: 30 Marks				
		PART A - (6	$6 \times 1 = 6 \text{ Marks}$				
	(A	Answer any six of t	the following que	stions)			
1.	. When a <i>CALL</i> instruction is executed, the stack pointer register is						
	(a) Decremented b	y two	(b) Incremented by two				
	(c) Decremented b	y one	(d) Incremented by one				
2. Vector address of interrupt RST 7.5 is							
	(a) 0.002CH	(b) 0.002CH	(c) 0.003CH	(d) None of these			
3.	In 8086 each segment	8086 each segment register containsKbytes of memory.					
	(a) 8	(b) 16	(c)32	(d) 64			
4.	Which of the following instruction is a logical instruction?						
	(a) DIV AB	(b) TEST	(c) CA	ALL (d) AAM			
5.	The 8087 coprocessor instruction	-	with an 8086	processor and with the same	:		
	(a) series, byte		(b) na	rallel, byte			

(c) series, bits

6.	The synchronization between connection and the	_	-	one by
	(a) RQ/GT <sub>0</sub> and RQ/GT <sub>1</sub> , (c) BUSY and TEST, FW	FWAIT	<ul><li>(b) INT and NN</li><li>(d) S<sub>0</sub> and QS<sub>0</sub>,</li></ul>	•
7.	In 8279, the keyboard entries accessed by the CPU to read the			that is further
	<ul><li>(a) 8 -bit FIFO</li><li>(c) 16 byte FIFO</li></ul>		<ul><li>(b) 8 - byte FIFO</li><li>(d) 16 bit FIFO</li></ul>	
8.	The 8279 is a			
	<ul><li>(a) DMA controller</li><li>(c) counter</li></ul>		<ul><li>(b) programmable keyboard</li><li>(d) interrupt controller</li></ul>	display interface
9.	The 8051 has 16-bi	Timer/Co	ounter registers.	
	(a) 5 (t	o) 4	(c) 3	(d) 2
10.	What will be the output after 6 MOV A, #55 ANL A, #67	execution o	of the following instruction?	
	(a) 54	o) 45	(c) 55	(d) 67
	P	ART – B (.	3 x 8= 24 Marks)	
	(Answer a	ny three o	f the following questions)	
11.	Explain the architecture of	f micropro	cessors 8085.	(8)
12.	Explain briefly about the a neat diagram.	internal ha	rdware architecture of 8086	microprocessor with (8)
13.	Explain in detail about of coupled configurations.	closely con	upled configurations and co	ompare with loosely (8)
14.	Explain the block diag operations.	gram of	the 8279 keyboard/display	interface and its (8)
15.	Explain the functional pin	diagram o	f 8051 microcontroller.	(8)