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Reg. No.:					

Question Paper Code: 35405

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

Fifth Semester

IS

		Electronics an	nd Communication Engine	ering				
(01UEC505 – MICRO)PROCESSOR	RS, MICROCONTROLLE	RS AND APPLICATION				
			(Regulation 2013)					
D	uration: 1:15hrs			Maximum: 30 Marks				
		PAR	$\Gamma A - (6 \times 1 = 6 \text{ Marks})$					
		(Answer any	six of the following quest	ions)				
1.	The number of hardware interrupts that the processor 8085 consists of is							
	(a) 1	(b) 3	(c) 5	(d) 7				
2.	Why is 8085 proces	ssor called as 8	bit processor?					
	(a) Has 8 bit Al	LU	(b) Has 8 bit Data bus					
	(c) None of the	se	(d) Both (a) and (b)					
3.	Which bus is bidire	ctional?						
	(a) Address bus(c) Data bus		(b) Control bus					
			(d) None of these					
4.	4. The end of a macro can be represented by the directive							
	(a) END	(b) ENDS	(c) ENDM	(d) ENDD				
5.	Programmable peri	pheral input-ou	atput port is other name for	•				
	(a) serial input-	output port	(b) parallel input-output port					

(d) parallel output port

(c)) serial input port

6.	In 8086 microprocessor the following has the highest priority among all type interrupts?						
	(a) NMI (b) DIV 0	(c) TYPE 255	(d) OVER FLOW				
7.	What is SJMP?						
	(a) Short Jump	(b)Stack Jump					
	(c)Synchronize Jump	(d) State Jump					
8.	When 8051 wakes up then 0x00 is loaded	ed to which register?					
	(a) DPTR	(b) Stack pointer					
	(c) PC	(d) PSW					
9.	The configuration in which each LED supply while the port lines sink the curre		-				
	(a) common port configuration(c) common cathode configuration	(b) common anode(d) none of these	configuration				
10.	10. The internal schematic of a typical stepper motor has						
	(a) 1 winding	(b) 2 winding					
	(c) 3 winding	(d) 4 winding					
	PART – B	(3 x 8= 24 Marks)					
	(Answer any three o	of the following ques	stions)				
11.	Explain in detail the addressing mod	Explain in detail the addressing modes of 8085 with suitable examples. (8)					
12.	Enumerate about the architecture of 8086 microprocessor with a block diagram and also explain its functions in detail. (8)						
13.	Explain with necessary diagrams the operation of 8255 programmable peripheral interface. (8)						
14.	Describe in detail about 8051 micro	Describe in detail about 8051 microcontroller memory. (8)					
15.	With a neat diagram explain the interface of stepper motor with 8051 microcontroller. Also write an ALP to run the motor in both anticlockwise and clockwise direction.						

(8)