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Reg. No. :					

(b) parallel input-output port

(d) parallel output port

Question Paper Code: 45405

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Fifth Semester

ATIONS

		Electronics an	nd Communication Engine	ering
	14UEC505 - MICRO	PROCESSOR	RS, MICROCONTROLLE	RS AND APPLICATION
			(Regulation 2014)	
Dι	ration: Three hours			Maximum: 100 Marks
		An	nswer ALL Questions	
		PART	$^{\circ}$ A - (10 x 1 = 10 Marks)	
1.	The number of hard	lware interrupt	ts that the processor 8085 c	consists of is
	(a) 1	(b) 3	(c) 5	(d) 7
2.	Why is 8085 proces	ssor called as 8	B bit processor?	
	(a) Has 8 bit Al	LU	(b) Has 8 bit Data bus	
(c) None of these			(d) Both (a) and (b)	
3.	Which bus is bidire	ctional?		
	(a) Address bus	3	(b) Control bus	
	(c) Data bus		(d) None of these	
4.	The end of a macro	can be represe	ented by the directive	
	(a) END	(b) ENDS	(c) ENDM	(d) ENDD
5.	Programmable peri	pheral input-o	utput port is other name for	r

(a) serial input-output port

(c)) serial input port

6. In 8086 microprocessor the following has the highest priority among all type int				among all type interrup	its?	
	(a) NMI	(b) DIV 0	(c) TYPE 255	(d) OVER FLOW		
7.	What is SJMP?					
	(a) Short Jump(c)Synchronize	Jump	(b)Stack Jump(d) State Jump			
8.	When 8051 wakes up then 0x00 is loaded to which register?					
	(a) DPTR (c) PC		(b) Stack pointer(d) PSW			
9.	The configuration in which each LED receives operating current of 8 mA from power supply while the port lines sink the current on each port line is					
	-	rt configuration hode configuration	(b) common anode(d) none of these	configuration		
10.	The internal schema	ntic of a typical stepp	per motor has			
	(a) 1 winding(c) 3 winding		(b) 2 winding(d) 4 winding			
		PART - B ($5 \times 2 = 10 \text{ Marks}$			
11.	What is the need for	r ALE signal in 8085	i microprocessor?			
12.	What are the difference	ent flag available in s	status register of 8086	5?		
13.	Write the BSR cont	rol word format in 8	255.			
14.	How can the 8051 i	nstructions be classif	fied?			
15.	List the different type	pes of ADC.				
		PART - C (5	$5 \times 16 = 80 \text{ Marks}$			
16.	(a) Explain in detai	l about internal arch	itecture of 8085 micr	oprocessor with diagran	n. (16)	
			Or			
	(b) Write an assen using 8085.	nbly language progr	ram for Sorting of I	Numbers in ascending of	order (16)	

17.	(a)	Explain the maximum and minimum modes operation of 8086 processor with a near schematic. (16)
		Or
	(b)	(i) Discuss the various Addressing Modes of 8086. (8)
		(ii) List out the different types of Instruction used in 8086. (8)
18.	(a)	With the help of a neat diagram explain DMA Controller. (16)
		Or
	(b)	Discuss briefly about keyboard/display controller. (16)
19.	(a)	Explain the architecture of 8051 with its diagram. (16)
		Or
	(b)	Brief about 8051 Microcontroller ports in detail. (16)
20.	(a)	Explain the working of microcontroller based stepper motor control with suitable diagrams. (16)
		Or
	(b)	Explain how intelligent LCD displays can be interfaced with 8051 Microcontroller? Write an assembly language program for the same. (16)