Question Paper Code: 45304

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

		Fifth Seme	ester					
	Elect	rical and Electron	nics Engineering					
	14UEE504 - MICROPROCE	SSORS AND MI	CROCONTROLL	ER PROGRAMMING				
		(Regulation	2014)					
Duration: One hour			Maximum: 30 Marks					
		PART A - (6 x 1	= 6 Marks)					
	(Answer any six of the following questions)							
1.	instruction is subroutine sequence	used to return	to calling progra	m after completing the				
	(a) RST	(b) CALL	(c) RET	(d) TRAP				
2.	The register in the 8085A the op-code to be run in the program.	mory address of the next						
	(a) stack pointer(c) ALU		(b) program c (d) accumulat					
3.	If 'n' denotes number of clock cycles and 'T' denotes period of the clock at which the microprocessor is running, then duration of execution of loop once can be denoted by (a) $n+T$ (b) $n-T$ (c) $n*T$ (d) n/T							
4.	Direction flag is used with							
	(a) String instructions(c) Arithmetic instructions		(b) Stack instructions(d) Branch instructions					
5.	For an interrupt to be served	by 8051 microco	ontroller, it should	have duration of				
	(a) one machine cycle(c) two machine cycles		(b) three macl (d) four mach	•				

6.	The instruction that is used to complement the bit of a bit addressable SFR in 80 microcontroller is							
	(a) CLR C	(b) CPL C	(c) CPL bit	(d) ANL bit				
7.	The register that maintain register and current word re	of the respective ini-	tial current address					
	(a) mode register(c) command register		(b) base address reg(d) mask register	gister				
8.	o save the DAC from negative transients the device connected between OUT1 a UT2 of AD 7523 is							
	(a) p-n junction diode	(b) zener	(c) FET	(d) BJT				
9.	8279 is							
	(a) PPI (c) UART		b) Keyboard, Display i d) USART	nterface				
10.	keyboard has 8 interface w	ith 8051 has						
	(a) Return line scan line(c) Return line		b) Scan line d) None of these					
PART - B (3 x $8 = 24$ Marks)								
	(Answer	any three of the f	ollowing questions)					
11.	Draw the hardware functions of each b		8085 microprocessor	and explain the (8)				
12.	Explain the five types necessary examples.	of addressing mod	es supported by 8085	instruction set with (8)				
13.	3. Draw the architecture of 8051 microcontroller and explain the functions of block							
14.	Explain the architecture of IC 8259 with a neat diagram.							
15.	5. Write an ALP to find square of a number using 8051 microcontroller instructions.							