A		Reg. No. :											
Question Paper Code: U5303													
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024													
Fifth Semester													
Electrical and Electronics Engineering													
19UEE503 - POWER SYSTEM ANALYSIS													
(Regulation 2019)													
Duration: Three hours Answer ALL Q					Maximum: 100 Marks Questions								
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$													
1.	DMA stands for											С	01 <b>-</b> R
2.	<ul><li>(a) Direct memory acc</li><li>(c) Data memory acces</li><li>What is the formula to</li></ul>	(b) Direct memory allocation (d) Data memory allocation the LT section? CO1- R											
	(a) INTR	(b) TRAP.		(c)	RST	6.5.			(d	) RS	T6.6		
3.	Data bus is	and address bus is	s									С	02- R
	(a) Bidirectional, Bidirectional				(b) Bidirectional, Unidirectional								
	(c)Unidirectional, Bidirectional				(d) Unidirectional, Bidirectional								
4.	What is the required baud rate for an efficient operation of serial port CO2- R levices in 8051 microcontroller?							02- R					
	(a) 1200	(b) 2400				(	(c) 48	800		(	(d) 90		
5.	The 8051 has			(a)	1				(	4) 5		C	03- R
6.	(a) 2 is useful t	(b) 3 for the generation of	facci	(c) urate		dela	ıv.		(	d) 5		С	03- R
0.	(a) 8254 (b) 8255A			-					(d) 8	8279			
7.	Which of the following can be used as a chip se									CO4- R			
8.	• /	multifunction I/O port (b) parallel port (c) DMA port (d) memory port w much time period is necessary for the slave to receive the interrupt and CO4- R											
	(a) 4 clock time period			(b) 8 clock time period									
	(c) 16 clock time period				(d) 24 clock time period								

9.	What is the capability of ARM7 f instruction for second?						
10.	Whi	110 MIPS(b) 150 MIPS(c) 125 MIPSich condition/s of MCLR (master clear) pin allows resettingHigh(b) Low(c) ModeratePART – B (5 x 2= 10 Marks)	g the PIC?	130 MIPS	CO5- R		
11.	List the interrupt pins available in 8085						
12.	Mention a single byte instruction for clearing the content of Accumulator and explain its significance						
13.	Explain the TMOD register.						
14.	What is interrupt service Mechanism?						
15.	List the features of USART.						
		PART – C (5 x 16= 80Marks)					
16.	(a)	Summarize the architecture of 8085 microprocesso functional blocks	or with its	CO1-U	(16)		
		Or					
	(b)	Explain the timing diagram for memory read and IO wr cycles with neat diagram.	ite machine	CO1- U	(16)		
17.	(a)	Explain the Timer / Counter functional unit of Microcon with relevant diagrams Or	troller 8051	CO2- U	(16)		
	(b)	Write a assembly program to multiply two 16-bit number controller.	ers for 8051	CO2- Ap	op (16)		
18.	(a)	Draw the schematic for interfacing a stepper motor microcontroller and write 8051 ALP for changing direction of motor		CO3- Ap	op (16)		
	(b)	Or Apply the control strategy for washing machine u microcontroller.	using 8051	CO3- Ap	op (16)		
19.	(a)	Briefly Explain about Various types and uses of RAM ar designing embedded systems	nd ROM for	CO4- U	(16)		
	(b)	Or Explain about programming model in Embedded System		CO4- U	(16)		

- 20. (a) Explain the working of ARM processor with neat architecture CO5- U (16) Or
  - (b) Draw and explain the architecture of on chip ADC of PIC micro CO5- App (16) controller in detail and write a suitable assembly language program for configuring the ADC