		Reg. No. :										
		Question P	ape	r Co	ode:	554	403					
	B.E . <i>i</i>	B.Tech. DEGREE	EXA	MIN	ATI	ON, I	DEC	202	0			
		Fifth	Seme	ster								
]	Electronics and Com	muni	catio	n Er	ngine	ering	g				
	15UEC503 - MICROF	PROCESSORS, MIC	ROC	ONT	[RO	LLE	RS A	AND	APF	PLIC	ATI	ONS
		(Regula	ation	2015)							
Dur	ation: One hour						N	Aaxi	mum	n: 30	Mar	ks
		PART A - (6	5 x 1 =	= 6 N	/lark	s)						
	(Answer any six of t	he fo	llow	ing o	ques	tions	5)				
1.	The microprocessor can read/write 16 bit data from or to								CO1			
	(a) memory	(b) I /O device	(0	e) pro	ocess	or			(d) re	egist	er	
2.	The index register are	e used to hold										CO1
	(a) memory register	(b) offset address	(0	c) seg	gmer	it me	mor	У	(d) o	ffset	mer	nory
3.	TXD(Transmitted Data Output) pin carries serial stream of theCO2-transmitted data bits along with											
	(a) start bit (b) stop bit (c) parity bit (d) all of the mentione								ione	1		
4.	During DMA acknowledgement cycle, CPU relinquishes CO2-											
	(a) Address bus only	((b) Address bus & control bus									
	(c) Control bus & data bus (d) Data bus & address bus											
5.	8051 series has how many 16 bit registers?								CO3			
	(a) 2	(b) 3		(c) 1					(d) ()		
6.	Which out of the four ports of 8051 needs a pull-up resistor for using it is as an input or an output port?C								CO3			
	(a) PORT 0	(b) PORT 1		(c) P	ORT	2			(d) I	POR	Т3	

7.	What is described by	СО	CO4- R									
	(a) it masks the bit and then jumps to the label where ROW1 is written											
	(b) it makes the value of the accumulator 0FH and then jumps at the address where ROW1 label is written											
	(c) it compares the value of the accumulator with 0FH and jumps to the location where ROW1 label is there if the value becomes equal											
	(d) it compares the value of the accumulator with 0FH and jumps to the location where ROW11abel is there if the value is not equal											
8.	In ADC0808/0809 IC which pin is used to select Step Size? CO4-											
	(a) Vref	(b) Vin	(c) Vref/2 & Vin	(d) None of the ab	None of the above							
9.	The AVR is a	CO	CO5- R									
	(a) Harvard (b) Modified Harvard (c) Von Neumann (d) None of the a											
10.	The operating freque	CO	CO5- R									
	(a) 0 – 16 MHZ	(d) 0 – 64 MHZ	0-64 MHZ									
PART – B (3 x 8= 24 Marks)												
(Answer any three of the following questions)												
11.	Write an assembly la array	n CO1-App	(8)									
12.	With neat sketch communication.	explain the device	which is used for ser	ial CO2-U	(8)							
13.	Write an ALP in 8051 to arrange the given set of 'n' numbers in CO3-App (8) ascending order.											
14.	Draw the block diagr	CO4-U	(8)									
15.	Describe the internal	architecture of ATme	ga 32 AVR microcontrol	ler CO5-U	(8)							

with neat diagrams