

Reg. No:															
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
			вт	ech I	II Vea	r II S	(AU emest	er Re	mot mlar	)) Exam	inati	ons M	โลง	v 2019	
			<b>D</b> , 1	MIC		ROC	ESSO:	R & N	AICR		NTR(	OLLE		S	
				-			(EF	EE,EC	E,CSE	E)		_		-	
Time:	3 h	ours												Max. Marks: 60	
					(	Answ	er all	Five U	Inits 5	x 12 =	= 60 N	Marks)	)		
								$\mathbf{U}$	NIT-I	r -					
1	a	Draw	v the in	nternal	l archi	tectur	e of 80	)85 mi	icropro	ocesso	or and	expla	in	its operation.	8M
	Draw and explain the flag register of 8085 microprocessor.														4M
2	<b>UK</b>														714
2	<ul> <li>a Explain the various addressing modes of 8085 microprocessor with examples.</li> <li>b What is meant by an instruction? Mention the instruction and data formats of 8085 up</li> </ul>													7 M	
	UNIT-II														5111
3	a	Com	pare v	arious	featu	res of	the 80	xxx p	rocess	or fam	nily.				6M
	b	List o	out dif	ferent	assem	ıbler d	lirectiv	ves use	ed in 8	8086 n	nicrop	rocess	so	r with examples.	6M
	OR														
4	<b>a</b> What is an interrupt? Explain various types of interrupts in 8086 microprocessor.											6M			
	b	<b>b</b> Explain the physical memory organization in an 8086 system.												6M	
UNIT-III															
5	a	<b>a</b> Write an overview of 8051 microcontrollers.													6M
	b	Write	e a sho	ort not	e on th	ne foll	owing	i) Tin	ners ii	) Cour	iters i	ii) Sei	ria	l communication.	6M
6	•	Desc	ribo b	riafly	tha rad	rictor	set of	8051 r	<b>UK</b>	ontrol	lar				7M
U	a h	Expl	ain dif	fferenc	the reg	ween	micro	contro	ller ar	d mic	ropro	cessor	r.		5M
	UNIT-IV														5101
7	a	<b>a</b> Write a ALP to count the number of 1 s and 0's in a given 8-bit number.													
	<b>b</b> Explain Jump and call instructions of 8051 microcontroller with an example.														5M
0	OR														0.1
8	a L	Write	e short	t notes	on ex	ternal	interr	upts 11	18051	micro	ocontr	oller.		~	6M
	<b>b</b> What is an assembler? Explain the assembler directives of 8051 $\mu$ C.														OM
9	a	a Write an ALP to print a string "HELLO" on 16x2 LCD Display													7M
	b	<b>b</b> Write notes on 8051 serial port programming.													5M
OR															
10	<b>a</b> Explain the need of Relays and Opto-couplers for interfacing peripheral devices to													heral devices to	7M
		8051	Micro	ocontr	ollers	?	1				, <b>.</b>				, 1 <b>11</b>
	b	Desc	ribe K	ley bo	uncing	g prob	lem ar	nd de-l	oounci	ng sol	ution	s.			5M

\*\*\* END \*\*\*