

	Reg. No:		
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTT	UR	
	(AUTONOMOUS)		
	B. IECH IV Year II Semester Regular & Supplementary Examinations July	-2021	1
	REAL TIME OPERATING SYSTEMS		
	Time: 3 hours		<b>CO</b>
-	(Answer all Five Units $5 \times 12 = 60$ Marke)	arks: (	<b>5</b> 0
	UNIT-I		
1	Explain Architecture of real Time Systems with the help of neat block diagram.	L2	12M
	OR		
2	a Distinguish between embedded systems and real time systems.	L4	<b>7M</b>
	<b>b</b> Explain the features of Real Time Systems.	L2	5M
	UNIT-II		
3	Briefly explain about Hardware and software selection criteria in real time systems	12	121/
	OR	LZ	12111
4	a Define interrupts? Explain about different types of Interrupts with an example	T 1	6M
	<b>b</b> Explain in brief about the interrupt vector table (IVT) in embedded systems		6M
ť	UNIT-III	LZ	OIVI
5	Explain in brief about the following peripherals	12	12M
	1) Direct Memory Access 11) ADC & DAC 111) Comparator	112	12111
1	OR		ç
0	used in real time systems.	L2	12M
	UNIT-IV		
7	<b>a</b> Explain the architecture of RTOS. What is need of RTOS?	L2	6M
	<b>b</b> Explain about role of RTOS.	L2	6M
	OR		UIVI
8	a Explain how interrupt routines handled in embedded system.	12	6M
	<b>b</b> Explain process management and memory management in embedded system.	12	6M
	UNIT-V	112	UIVI
9	Define Scheduling. Explain about overview of scheduling policies.	L1	12M
	OR		
10	Explain about steps handle for RTOS Problems of Following	1.0	107-5
	i) Priority Inversion Phenomenon ii) Deadlock Phenomenon	L2	12M

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