Q.P. Code: 191	EC410	4					R19
Reg. No:							

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

M.Tech I Year I Semester Regular Examinations Jan 2020 REAL TIME OPERATING SYSTEMS

(Embedded Systems)

	(Embedded Systems)				
Time: 3 hours Max. Max					
	(Answer all Five Units $5 \times 12 = 60$ Marks)				
	UNIT-I				
1	a Explain the overview of Threads and Tasks.	6M			
	b Draw the structure of Micro kernel and explain in brief.	6 M			
	OR				
2	Discuss how kernel plays an important role in the Operating systems.	12M			
	<u>UNIT-II</u>				
3	a Explain the Process control phenomenon based on different UNIX commands.	6M			
	b What is meant by semaphore? Mention few advantages of shared memory.	6M			
	OR	403.5			
4	Illustrate three examples for specifying hard time constraints.	12M			
_	UNIT-III	-			
5	a What are different temporal parameters of real time systems during workload?	6M			
	b With a neat sketch, explain periodic task model of real time systems.	6M			
6	OR a Specify Precedence graph and Task graph.	6M			
U	b Write a few words about Data Dependency.	6M			
	UNIT-IV	UIVI			
7	a Explain Schedule mechanism of real time operating systems.	6M			
,	b What is meant by time services? How those are helpful in operating function?	6M			
	OR	UIVI			
8	a Describe Hardware and software interrupt priorities.	6M			
	b Write short note on Precedence constraints and data dependency.	6M			
	UNIT-V				
9	a Explain how process management will be done in RTLinux	6M			
	b Explain the Salient features of Semaphore.	6M			
	OR				
10	a FortaskPriorityfunctiondefine3optionsonspawning.	6M			
	b Describe memory related functions of MUCOS.	6M			

*** END ***