portant Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining plant pages.	2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+6
III	



17MT743

Seventh Semester B.E. Degree Examination, July/August 2021

Real Time Systems

Time: 3 hrs.

Max. Marks: 100

Tin	ne: 3	hrs.	larks. 100
		Note: Answer any FIVE full questions.	
2		Y :	trains
1	a.	List and explain the classification of Real Time Systems depending on Time cons	(12 Marks)
	1	Explain Adaptive control with neat sketch.	(08 Marks)
	b.	Explain Adaptive definitor with near sketch.	
2	a.	Explain supervisory control with the help of sketch.	(10 Marks)
	b.	Give the classification of programming.	(10 Marks)
		will at the California ovalein single chin microcomputers and micro	ocontrollers.
3	a.	With the help of a block diagram, explain single chip microcomputers and micro	(10 Marks)
	1	Explain the basic interrupt mechanism with neat flowchart and also explain	
	b.	interrupt system.	(10 Marks)
		interrupt system.	
4	a.	With a neat sketch, explain different LAN topologies.	(10 Marks)
	b.	Write a short note on ISO seven layer models.	(10 Marks)
		(P)	
200			(12 Marks)
5	a.	Write notes on modularity and variables in programming.	(08 Marks)
	b.	Write a short note on Low-level facilities.	(
6	a.	With a neat sketch, explain standard structural program constructs.	(10 Marks)
U	b.	List and explain the different features of Real time languages.	(10 Marks)
		(S)	stam
7	a.	Differentiate between multiuser operating system and multitasking operating sys	(10 Marks)
	121	Ends in the enishing extructures of PTOS	(10 Marks)
	b.	Explain the priority structures of RTOS.	
8	a.	With necessary sketch, explain the functions of Task management, Task sta	tes and Task
O		Descriptor/	(10 Marks)
	b.	Tests about and avvanning mechanism	(10 Marks)
			× 27
		100 to the state of the state o	(10 Marks)
9	a.	Explain Foreground/Background system with neat sketch.	(10 Marks)
	b	Describe single program approach with flow chart.	

(10 Marks)

a. Describe Hately and Pirabhi method.b. Explain Ward and Mellor method with a neat sketch.

(10 Marks)