210	210	210	210	210	210	210		
Regi	stration No :							
•								
Total Nu	imber of Pages : 02				P	B.Tech CS5D001		
210		BRAN Max N Time Q.COD	ME SYSTEMS NCH : CSE Marks : 100 : 3 Hours E : HRB456	8	20 210	210		
	r Question No.1 (Part	•	nipuisory, an n Part-III.	IY EIGHT ITO		•		
210	The figure	es in the right l	hand margin	indicate mai	'ks.	210		
		I	Part-I					
Q1 Only Short Answer Type Questions (Answer All-10)						(2 x 10)		
a)	Mention any four application of real time systems.							
b)	Differentiate between ta	ask scheduling ar	nd clock-driven	scheduling.				
c)0	Distinguish between sa	fety and reliability	/. 210	210	210	210		
d)	Explain data dependen	cy and its types.						
e)	Fixed priority vs dynam	ic priority schedu	ling.					
f)	Elaborate firm deadline	model.						
g)	What do you mean by p	oriority inversion?						
h)	State the principal differ	rence between po	ool and channe	l.				
. 	What is code sharing?	explain serially re	usable and ree	entrant code.	210	210		
j)	Define and differentiate	between deadlin	e and executio	n time.	210			
			Part-II					
Q2	Only Focused-Short A		-		· ·	(6 x 8)		
a)	Define real time system example.	n. What are the c	characteristic of	•	•			
b) ⁰	Explain the basic mode	l of real time syst	em.	210	210	210		
c)	Explain the batch proce	ess and continuou	ıs process.					
d)	Define :							
	i) Asynchronous and sii) Interrupt response veiii) Polling	•	smission techni	que.				
e) o	Explain the approaches	of application or	iented software	2 10	210	210		
f)	Describe mutual exclus							
g)	With flowchart explain f	•	•					
h)	What do you mean by graph.	precedence cor	nstraints? Expla	ain precedenc	e graph and task			
i)	Give advantages and d	isadvantages of p	oriority inheritar	nce protocol.				
j)	Explain use of priority of	eiling protocol in	dynamic priorit					
210 k)	Elaborate resource con	flicts and blocking	g. 210	210	210	210		
I)	Draw and explain task	state diagram.						

210		210	210	210	210	210	210	210						
		Part-III Only Long Answer Type Questions (Answer Any Two out of Four) Q3 Explain with suitable diagram the multi-user and multi-tasking operating systems. (16)												
210	Q3	0.1.0		agram the multi-	user and multi-ta	asking operating	systems.	(16)						
	Q4 a) b)		Describe clock driven as Explain dynamic versus	(8) (8)										
	Q5		Explain RM and DM algorithm with suitable example.											
210	Q6	210 a) b)	Explain the following in Polling server Deferrable server.	n detail :	210	210	210	(8) (8)						
210		210	210	210	210	210	210	210						
210		210	210	210	210	210	210	210						
210		210	210	210	210	210	210	210						
210		210	210	210	210	210	210	210						
210		210	210	210	210	210	210	210						
210		210	210	210	210	210	210	210						