	Student Regd. No	В	
COURSE CODE: DCAP608			
COURSE TITLE: REAL TIME SYSTEMS Date of Exam:- 16 Oct Time Allowed: 3 hour Max. Marks: 80 1. This paper contains 10 questions divided in two parts on1_ page. 2. Part A is compulsory. 3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the questions chosen. 4. The marks assigned to each question are shown at the end of each question in square brackets. 5. Answer all questions in serial order.			
PART A Q1. Write short notes on the following:			
a) Signal processing.			
b) Temporal parameters.			
c) Off-Line vs. online scheduling.			
d) Cyclic scheduling			
e) Arbitrary Response time			
f) Actuator			
g) Effective deadline			
h) Data dependency			
i) Job vs. process			
j) Rate Monotonic		(2*10=20)	
	PART B		
Q2. Give some of the applications of Real time systems.		[10]	

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Q3. Discuss a reference model of Real Time Systems.	[10]	
Q4.Differentiate between Hard and Soft Real Time Systems.	[10]	
Q5. What are commonly used Approaches to Real Time Scheduling.	[10]	
Q6. What are the various pros and cons of Clock Driven Scheduling?	[10]	
Q7. How to check the optimality of RM and DM Algorithms?	[10]	
Q8. Differentiate between Dynamic and Static Systems.	[10]	
Q9. Write an algorithm for constructing Static Schedules.	[10]	
Q10. What are the challenges in validating timing constraints in Priority Driven System?		

[10]