K8	K8 K8 K8 K8	3 K8 K8 '	
K8	No: 5455AG JAWAHARLAL NEHRU TECHNOLOGICAL UNIVE M. Tech T Semester Examinations, June/J DIGITAL SYSTEM DESIGN (Embedded Systems)		
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Ans Part B consists of 5 Units. Answer any one full question carries 10 marks and may have a, b, c as sub ques	uestion from each unit. Each	
PART - A $5 \times 5 \text{ Marks} = 25$			
1.a) b) c) d) e)	What are static hazards and how it can be eliminated? Explain with an example about BCD adders. Discuss about state machine charts, Define fault detection and redundancy. Write about bridging faults.	[5] [5] [5] [5]	
	PART - B		
		$5 \times 10 \text{ Marks} = 50$	
2.a) b)	Find a circuit that has no static hazards and implements the $F(A, B, C, D) = \sum (0, 2, 6, 7, 8, 10, 12)$ With respect to an asynchronous sequential machine,	explain about minimal closed	
	corners.	[5+5]	
3.a) b)	OR Explain about the finding a minimal cover using a prime-in. The response of the machine shown in table 1 below to give to the experimenter. Devise a procedure that the exidentify the initial state. What are the minimum-length se identification possible?	nplicant table. an un known input sequence is perimenter may use in order to	
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