	210	210	210	210	210	210	210
R	egist	ration No :					
Tota	l Nun	nber of Pages :	02				B.Tech
		8	8 th Semester Reg	ular Examinat	tion 2018-19		EI8J002
	210	210	² EMBEI BRAN Max Tin	DED SYSTEN ICH : AEIE, IEE < Marks : 100 ne : 3 Hours	IS 210	210	210
Ans	swer	Question No.1 (Part-1) which is		ny EIGHT from	m Part-II and an	y TWO
	210	⊽The f	fr igures in₂the rigi	om Part-III.	n indicate∖mar	'ks. 210	210
	210			· ·	i muicate mai	N3. 210	210
Q1		-	ver Type Question	•	•		(2 x 10)
			es and characterist d Systems on the b			ce.	
			n out protection c				
	2 d)	The availability of	f a product⁺is 93%			ilure is 32ªdays.	210
	e)		an Time To Failure anal and two non-op			ded system must	
	-	What are the fund	damental issues yo	ou may face in I	hardware softwa	are co-design of	
		your embedded sy How does pre-em	/stem? ptive scheduling wo	ork? Give an exa	mple		
	h)	How do EDA Too	is help in the desig	ning of Embedd	ed Systems? G	•	
			put of the following o", str2[] = "World!";	•	210	210	210
	j)	,	ge and one limitation	on of Simulator b	based debugging] .	
				Part- II			
Q2		Twelve)	hort Answer Typ			y Eight out of	(6 x 8) ₂₁₀
	b) c)	Explain different c Design an autom following requiren inserting the coin, cream (to get the	pt of Memory Shad ommunication inter natic ice-cream ve nent. The machine the user can eithe ir choice of flavour	faces used in Au nding machine is initiated by i r select 'Vanilla'	utomotive domai based on FSM inserting a 5 ru , 'Strawberry' or	I model for the pees coin. After 'Chocolate' ice-	
	-	back the coin Explain the need following expressi		it different from $y = x^2 + ab$	CDFG? Draw 1	the DFG for the	210
	e)		of analog electron sed in embedded	ic components i			
	f)	Three processes	with process ID				
	210		s the ready queue s using Round Rot			time present for	210
		any process).Tim	e Slice=2ms. Calc	ulate the Waitin			

210	210	210	210	210	210	210	210				
210	h) i) j) <u>(k)</u> I)	Compare between In (IAP). Justify the use of hand Illustrate different con Machine as an exampl Elaborate on re-entran Illustrate the Product L	made enclosure nponents of an e. t function? Disc	es for an embedded p n Embedded System uss are its pros and c	roduct. h by takir	ng the Washing	210				
	Part-III Only Long Answer Type Questions (Answer Any Two out of Four) Q3 With suitable illustrations and examples describe the different UML diagrams										
210	Q4 210	Contrast a RTOS from		h suitable examples	. How car	n you choose a 210	(16) 210				
	Q5	Discuss the role of IDE	in Embedded	System Development	environm	ent.	(16)				
	Q6	You have selected Ra justification for the sam techniques on the basi	ne. What are the	e different techniques			(16)				
210	210	210	210	210	210	210	210				
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