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		6 th Semester Regular / Back Examination 2018-19 PROCESS CONTROL										
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0	Answe	r Question No.1	l (Part-1) v		ılsory,≀any∃ rt-III.	EIGHT from F	Part-II and any TW	/O from 210				
		7	The figure	s in the right h	and margin	indicate mar	ks.					
					art- I							
C	21	•	• •	Questions (Ans	wer All-10)			(2 x 10)				
0	a)	•	Define process load and process lag. Define proportional band and how is it related to proportional gain? ²¹⁰									
	b) c)			olled variable and		-		210				
	d)	•		plement ON-OFF	_	ariabio.						
	e)		•	making RTD and		tion.						
	f)			zation of signals?								
	g)	State the chara	cteristics of	DAC.								
0	h)			tions of adaptive o		210	210	010				
0	i)			ng ladder diagram		210	210	210				
	j)	what is Buller?	Explain in	-state buffer and i								
,	20	Only F 2 2 2 2 2	Ole a set A se a		art- II			(C 0)				
	Q2 a)			wer Type Questin application of i			signal conditioning	(6 x 8)				
0	b)											
	c)	What are issues related to a practical Sample and Hold circuit?										
	d)											
	•	e) Draw the circuit diagrams of low pass and high pass RC filters and derive the transfer function.										
0	f)	Z1U	210	am and explain ea	Z I U	210	210	210				
	g) h)		•	cribe the measure inciple and its app		n using strain g	auge.					
	i)	•	•	erence feed forwa		entional feedbac	ck control					
	j)	What are the r	nain advan				processes can you					
	k)			scribe the working	ng of a self re	egulated proce	ss. Why is it called					
0	I)	so? Narrate the wo	rking of sele	ective control syst	em. How is it	different from a	adaptive control?	210				

210	210	210	210	210	210	210	210				
C		-	F Questions (Ans er? State the typ	-		plain them with	(16)				
	block dia	gram.		-							
210 Q	210 Q4 With near	210 t sketches discus	210 ss the various blo	210 cks of final contro	ol operation.	210	210 (16)				
Q		difference betwe posite control mo	een continuous ar de.	nd discontinuous	controller. Expla	in two position	(16)				
Q 210	A control valve has a linear variation of opening as the input voltage varies from 0 to 10 2Volts. A microcomputer outputs 8-bit word to control the valve opening using an 8-bit DAG to generate the valve voltage. a) Find the reference voltage required to obtain a full open valve (10V) b) Find the percentage of valve opening for 1-bit change in the input word.										
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