

R	leg	g. No:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR																
		P To	ob III	Voor	l Som	to	·		OMOU		mina	tions		10t 20	122	
		D.Tet	ch m	rear			' Sup 'RICA	-		-			s Augu	151-20	122	
(Electrical and Electronics Engineering)																
Ti	me	e: 3 hours												Ma	x. Marl	ks: 60
					(Ans	wer a	ll Five			2 = 6	0 Mar	ks)				
1	9	UNIT-I a How the electrical measuring instruments are classified?												L1	6M	
T		b Discuss about errors and compensations of measuring instruments.											L1 L2	6M		
•		OR														01
2		a Describe the construction and working of attraction type MI instrument.b Derive an expression for the Deflecting torque in MI type instruments.												L1 L3	6M 6M	
	UNIT-II														-	-
3	a	Draw the circuit of a Kelvin's double bridge used for measurement of low resistances. Derive the condition for balance.										L1	6M			
	b	List the ac							well's	Bridg	ge.				L1	6M
		OR Explain the construction and working of Anderson Bridge with suitable												T 1	01	
4	a	diagrams.		onstruc	ction	and	WORK11	ig of	Ande	erson	Bridg	ge wi	th suit	able	L1	6M
	b	b Derive the expression for capacitance using Schering Bridge.													L3	6M
5		 a Explain the construction of Two element dynamometer type wattmeter. b Explain the measurement of LPF and UPF. 												L1	6M	
	D	Explain tr	ne mea	isurem	ient of	LPF	and UI	PF. Ol	R						L1	6M
6		Discuss th				-									L2	6M
	b A 40A, 230 V meter on full load test makes 72 revolutions in 42 seconds. If normal disc speed is 620 revolutions per Kwh, find the percentage error.									f the	L4	6M				
7		Describe the construction and working of LVDT with a neat schematic diagram.											am.	L2	6M	
	b	Describe t i) RTD		ethod f Therm		asurer		f temj C Ser		re with	n use c	of			L2	6M
		1) 112	11)	1 Horrin	15015		111/1	O								
8		 a Discuss Current transformer and Potential transformer. b What are the parameters to be considered in selecting a transducer for 										ora	L2 L1	6M 6M		
	U	What are the parameters to be considered in selecting a transducer for a particular application.											or a	LI	UIVI	
								UNI								
9		Describe the construction and working of a moving coil ballistic galvanometer. compare flux meter and Ballistic Galvanometer										L1 L4	6M 6M			
		-						O	R						17	UIVI
10		Draw a ne	-		-			-			ſ				L1	6M 6M
	IJ	Draw the	LISSAJ	ous pa	uci iis	: vv [1]	e me a	auväll	lages (лСК).				L1	6M

*** END ***