)		210	210	210	21	0	210	210	210
	Registration No :								
	Tota	al Nu	mber of Pages :	02					B.Tech. PEI3I102
		210		T Ma		NICS M EIE, IE urs 100	EASUREMENT	210	210
Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and									
)		210	The f	igures in the ric	from Part- ght hand r		ndicate marks	210	210
					Part- I				
	Q1		Short Answer Ty	pe Questions (A	nswer All-	10)			(2 x 10)
		a)	Distinguish betwe	en fundamental a	nd derived	units.			
		b)	Differentiate between	een measuremen	t and meas	ured.			
)		2 c)	Explain about diffe	erent types of drift	. 21	0	210	210	210
		d)	In calculating volt ohm. Calculate the significant figures	•					
		e)	Define standard.W	hat are the differ	ent types of	f standar	d?		
		f)	Distinguish betwe	en sensitivity & de	ead zone.				
		g)	Mention two applic	cations of Wien B	ridge.				
)		210 h)	Classify transduce	ers with reference	to power re	o equireme	ent. 210	210	210
		i)	Describe the te standardization do	rm "standardiza	tion", of a	a d.c.		How is the	
		j)	What is a volt-ration	box?					
					Part- II				
)	Q2	210	Focused-Short A	nswer Type Que	estions- (A	nswer A	any Eight out of	Twelve)	(6 x 8) ₂₁₀
		a)	Describe about dit	fferent types of er	rors in mea	suremen	it.		
		b)	A moving coil volt when potential di dimensions of 30 constant is 0.375 diameter of the co coil winding. The s	fference of 100 mm × 25 mm ar ×10 ⁻⁶ Nm/deg. Fopper wire of coil	mV is appl nd is wound ind the flux winding if (ied acro ded with density 30% of ir	ss it. The moving 100 turns. The in the air gap. Instrument resisted	ng coil has a control spring Find also the	210
J		210 c)	An uncompensate currents of 1 A a what this wattmet sin (1131 t) ampe (754 t + 45°) volt. to be purely resist	nd 0.05 A in its of the control of t	current and the current ntial coil vol	potentia coil curr tage is s	al coils respective rent is 10 sin (37 500 cos (377 t-	ely. Calculate $(7 t + 15^{\circ}) + 5 (30^{\circ}) + 800 \sin^{\circ}$	210
)		d) 210	Describe the work the equations for I		for measu		of medium induc	tance. Derive	210
,		e)	What is the relat series RC circuit and derive the exp	ion between pow used in Schering	ver factor (Bridge for	PF) and measure	dissipation fact	or (D) of the	210

