	210	210	210	210	210	210	210
	Regis	tration No :					
To	tal Nu	mber of Pages : 02					B.Tech.
	210	2103 rd Se ELECTF er Question No.1 (Pa	BRANCH Tim Max Q.C	ECTRONICS N I : ELECTRICA e : 3 Hours Marks : 100 ODE : E790	MEASUREMENT AL	210	EE3I104 ₂₁₀
•	210	210	210 fro	m Part-III.	indicate marks	210	210
		The figu	_	•	marcate marks	.	
Q1		Part- I Short Answer Type Questions (Answer All 10)					(2 x 10)
α,	2)	Short Answer Type Questions (Answer All-10) Distinguish between fundamental and derived units.					(2 X 10)
	a) b)	Differentiate between					
	210 C)	040	010	210	210	210	210
	d)	Explain about different types of drift. In calculating voltage drop, a current of 4.37 A is recorded in a resistance of 31.27 ohm. Calculate the voltage drop across the resistor to the appropriate number of significant figures					
	e)	Define standard.Wha	it are the differen	t types of standa	rd?		
	f)	Distinguish between	sensitivity & dead	I zone.			
	g)	Mention two applicati	ons of Wien Brid	ge. ₂₁₀	210	210	210
	h)	Classify transducers with reference to power requirement.				210	210
	i)	Describe the term "standardization", of a d.c. potentiometer. How is the standardization done for an a.c. potentiometer?					
	j)	What is a volt-ratio be	ox?				
	040	040	040	Part- II	040	040	040
Q2	210	Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)					(6 x 8) ²¹⁰
	a)	Describe about different types of errors in measurement.					
	b)	A moving coil voltme when potential differ dimensions of 30 mr constant is 0.375 ×1 diameter of the copp coil winding. The spe	rence of 100 m\ m × 25 mm and 0 ⁻⁶ Nm/deg. Finc er wire of coil wi	 is applied across is wounded with I the flux density nding if 30% of it 	oss it. The movi on 100 turns. The open in the air gap. Instrument resista	ng coil has a control spring Find also the	210
	c)	An uncompensated so currents of 1 A and what this wattmeter was in (1131 t) ampere (754 t + 45°) volt. Cato be purely resistive.	0.05 A in its cur will read when the and the potential lculate also the re	rent and potention courrent coil cur I coil voltage is	al coils respectiv rrent is 10 sin (37 500 cos (377 t-	rely. Calculate 77 t + 15°) + 5 30°) +800 sin	
	d) 210	Describe the working the equations for bala		r measurement	of medium induc	ctance. Derive	210
	е)	What is the relation series RC circuit use and derive the express	ed in Schering B	ridge for méasui			

