Q.P. C	Q.P. Code: 16EE224														R	16
Reg.	N	0:					-									
	SI	DDH	ART	HINS	STI	TU	TE O	FEN	GINE	ERIN	G&	ГЕСН	INOI	- OGY:: PU	TTUR	
	51	DDII			J I I	10		(AU	TON	OMOL	US)				TICK	
	В	.Tec	h III Y	ear	II S	em	ester	Sup	pleme	entary	/ Exa	mina	tions	February	-2022	
			E	LEC	TR	ICA	L A	ND EI	LECT	RONI	C MI	EASU	REM	ENTS		
						(El	ectric	al and	Electi	onics	Engin	eering	g)			
Time: 3 hours Max. Marks: 60																
						(A	nswei	all Fi	ve Un	its 5 x	12 =	60 Ma	arks)			
									UN	IT-I						
1	a	Derive an expression for the Deflecting torque in MI type instruments.														
	b	List t	the ad	vanta	ges	& 0	lisadv	antage	es of N	II type	e instr	ument	s.			6M
		OR														
2	a	Compare various controlling system in indicating instrument.												5M		
	b	The	The deflecting torque of an ammeter varies as the square of the current passing													
		defle	ign n.	for a	cur	ren	t of 1	$\Delta \mathbf{w}$	hen th	e insti	umen	t is i)	snrin	g control ii) oravity	7M
		contr	control													
									UN	IT-II						
3	a	Expl	ain ab	out D	le sa	auty	's Bri	dge w	ith a n	eat sk	etch.					6M
	b	List the advantages and disadvantages of Maxwell's Bridge.														6M
									C)R						
4	a	Deriv	ve the	gener	ral b	bala	nce ec	quatio	n of a	DC Bi	ridge.					6M
	b	List s	some a	advan	itage	es a	nd dis	sadvan	tages	of And	dersor	n bridg	ge.			6M
		UNIT-III														
5	a	Expla	ain the	e mea	sure	eme	nt of	LPF a	nd UP	F. 		1 1		1		6M
	b Explain about creeping and its compensation in single phase induction typ												be energy	6M		
		mete	OR													
6	a	Expl	ain the	e frict	ion	cor	npens	ation	in sing	le pha	se ind	luction	n type	energy met	ter.	6M
	b	Expl	ain str	ay ma	agne	etic	field	errors	in ele	ctro dy	namo	meter	type	wattmeter.		6M
									UNI	T-IV						
7	a	How	do yo	u me	asur	re c	urrent	and v	oltage	using	poter	ntiome	eter?			4M
	b	Desc	ribe t	he co	onst	ruc	tion a	nd w	orking	of c	o-ordi	nate 1	type 1	Potentiomet	ter & its	8M
		stand	lardiza	ation.												UIVI
0		Daga				:		1 1)R		4:	4.0.4			
ð	a h	What	ribe tr	ie cor	istru		on and $2 E_{\rm V}$	1 WOR	cing of	a d.c	poten	uome	ter.			6IVI GM
	IJ	w na	15 510	inuar	IIZa		I. EXL	nam	TIN	TT V						OIVI
0	UNIT-V															6M
7	a h	Expl	ain sis	noin	non nt m	eth	nouo	11 101 1	Jamsti	c gaiv	anom	eter.				6M
	0	LAPI	un 51/	pom		CIII	Jub.		(DR						UIVI
10	a	Deter	rmine	leaka	ige f	fact	or wit	h flux	meter							6M
	b	Com	pare f	lux m	ieter	r an	d ball	istic g	alvanc	meter						6M

a Determine leakage factor with flux meter.b Compare flux meter and ballistic galvanometer.

*** END ***