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Third Semester B.E. Degree Examination, Dec.2023/Jan.2024 **Electrical and Electronic Measurement**

Time: 3 hrs.

Max. Marks: 100

	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Explain Maxwell's inductance and capacitance bridge.	(10 Marks)
	b.	Explain Fall off potential method to measure Earth resistance.	(10 Marks)
		OR	
2	0	Explain Anderson's bridge.	(10 Marks)
2	a. b.	Explain Megger.	(10 Marks)
	υ.	Explain Wegger.	(10 Marks)
		Module-2	
3	a.	Explain Dynamometer type of Wattmeter.	(10 Marks)
	b.	Explain measurement of 3φ power using 2 Wattmeter method.	(10 Marks)
		OR	
1	•	Explain Dynamometer type power factor meter.	(10 Marks)
4	a. h	Explain Single phase induction type energy meter.	(10 Marks)
	b.	Explain Single phase induction type energy meter.	(10 Marks)
		Module-3	
5	a.	Explain Shunt's and Multipliers.	(10 Marks)
	b.	Explain Silsbee's method of testing CT.	(10 Marks)
	•	OR	
6	a.	Explain Measurement of flux / flux density.	(10 Marks)
	b.	A CT has a single turn primary and 400 secondary turns. The magnetizing cu	
		while core loss current is 40A. Secondary circuit phase angle is 28, calcula	(10 Marks)
		primary current and ratio error when secondary current carries 5A current.	(10 Marks)
		Module-4	
7	a.	Explain Ramp type DVM.	(10 Marks)
	b.	Explain true rms reading voltmeter.	(10 Marks)
	No.		
		OR	
8	a.	Explain integrating type DVM.	(10 Marks)
	b.	Explain Q meter.	(10 Marks)
		Module-5	
9	a.	Explain Dot matrix displays.	(10 Marks)
,	b.	Explain Cathode ray tubes.	(10 Marks)
	0.	Emplain Carried Tay Age of	
		OR	
10	a.	Explain Electro cardio graph.	(10 Marks)
	b.	Explain Nixie tubes and LVD.	(10 Marks)

compulsorily draw diagonal cross lines on the remaining blank pages.