Third Semester B.E. Degree Examination, Dec.2023/Jan.2024

Electrical and Electronic Measurement

ime: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
. Module-1			
1	a.	Explain Maxwell's inductance and capacitance bridge.	(10 Marks)
1	a. b.	Explain Fall off potential method to measure Earth resistance.	(10 Marks)
o. Emplant in the property of			
OR			
2	a.	Explain Anderson's bridge.	(10 Marks)
	b.	Explain Megger.	(10 Marks)
Module-2			
3	a.	Explain Dynamometer type of Wattmeter.	(10 Marks)
3	b.	Explain measurement of 3φ power using 2 Wattmeter method.	(10 Marks)
	υ.	Explain incusarement of a first transfer of the second of	
		OR	
4	a.	Explain Dynamometer type power factor meter.	(10 Marks)
	b.	Explain Single phase induction type energy meter.	(10 Marks)
		Modulo 2	
_		Explain Shunt's and Multipliers. Module-3	(10 Marks)
5	a. b.	Explain Silsbee's method of testing CT.	(10 Marks)
	υ.	Explain Busice 5 method of testing 61.	
		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 cur	rent is 90A
		while core loss current is 40A. Secondary circuit phase angle is 28, calculate	(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)
		OR	(10 Mayles)
8	a.	Explain integrating type DVM.	(10 Marks) (10 Marks)
	b.	Explain Q meter.	(10 Marks)
Module-5			
9	a.	Explain Dot matrix displays.	(10 Marks)
9	b.	Explain Cathode ray tubes.	(10 Marks)
		OR	(10 Marks)
10	a.	Explain Electro cardio graph. CMRIT LIBRARY	(10 Marks) (10 Marks)
	b.	Explain Nixie tubes and LVD. BANGALORE - 560 037	(10 Marks)

* * * *

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.