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Sep-21-00063

B. Tech. EXAMINATION, 2021

Semester IV (CBCS)

ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

EE-402

Time: 2 Hours Maximum Marks: 60

The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.

Note: Attempt Four questions in all, selecting one question from any of the Sections A, B, C and D. Q. No. 9 is compulsory.

Section A

(a) Explain three electromechanical forces in indicating instruments.

	(b)	Explain comparison of damping methods.	7.5		
2.	(a)	Explain static characteristics of instruments.	7.5		
	(b)	Explain gauge factor.	7.5		
	Section B				
3.	(a)	Explain moving iron type instruments.	7.5		
	(b)	Explain the hot wire type instrument.	7.5		
4.	(a)	Explain electrodynamic and induction	type		
		wattmeter.	7.5		
	(b)	What do you mean by compensation and c	reep		
		in energy meter ?	7.5		
	Section C				
5.	What are the advantages and disadvantages of single		ıgle-		
	phas	se power factor meter ?	15		
6.	Explain frequency meter. 15				
Section D					
7.	Wha	at are the applications of Maxwell's induct ge?	ance 15		

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8.	Exp	lain Anderson and Own's bridge.	15		
(Compulsory Question)					
9.	(a)	What do you know about shielding and earth	ing		
		in brief?	4		
	(b)	Explain principle of thermocouple transducer	: 4		
	(c)	Limitation of Wheatstone bridge.	4		
	(d)	Explain various errors in instruments.	3		