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ELECTRICAL INSTRUMENTS AND MEASUREMENTS 3rd Exam/ECE/4361/Dec'22

(For 2018 Batch Onwards)

Duratio	on: 3Hrs.	M.Marks:75
	SECTION-A	
Q1. Do	as directed.	15x1=15
a.	The meter section consists ofand a	
b.	The RMS value of waveform is defined as the	root of average of square of the quantities
	being measured.	
C.	Probe impedance changes with	
d.	A square wave generator has a duty cycle.	
e.	A wheat stone bridge works on the principle of	
f.	The full form of ADC is	
g.	The dual slope integrator type DVM is am	neasuring device.
	In digital frequency meter, the Schmitt trigger is used to	o convert the sinusoidal waveform into a
	PMMC stands for	
	Maxwell's induction bridge can measure	
	Systematic errors may arise due to instrument or enviro	
l.	An ammeter is always connected in with a A dc voltmeter measures the between	circuit under test.
m.	A dc voltmeter measures the between	two points in a dc circuit.
	VTVM stands for	
0.	The number of cycles per second is called	
	SECTION-B	
	empt any six questions.	6x5=30
	Explain the working principle of ramp type digital voltm	neter?
	What is LVDT? Write its various applications?	
	Differentiate between direct & indirect methods of me	asurements?
	Write down the various applications of CRO?	
	Define the following: a) Sensitivity	b) resolution
	Draw & Explain block diagram of function generator?	
	What are the basic requirements of a transducer?	
VIII.	Explain the types of errors in measurements?	
	CECTION C	
O3 V++	SECTION-C	2,40, 20
	tempt any three questions.	3x10=30
	Explain the working principle of LVDT transducer?	tung moving iron instruments & avalain how the
D.	Explain the principle of operation of attraction type of t controlling and damping forces are obtained?	type moving iron instruments & explain now the
		ii) Lagia Draha
	Explain the following. i) logic Analyzer Draw & Explain the block diagram of digital multimeter	, - 3
	Explain maxwell's induction bridge in detail?	a write its applications?
e.	Lapiaii i ilaavveii 5 illuuctioii bi luge III uetaii?	