

2018 VI 12	1430	Seat No. :
Time : 2 Hours ELEC	TRONIC AND ELE	ECTRICAL MEASUREMENTS
	Subject Code	
	V 3 4 1	
Total No. of Questions : 5	(Printed Pages : 2)	Maximum Marks : 50
clear iii) All qu	the number of each	n question and sub-question ory.
1. A) Fill in the blanks: i) In induction type wat as ii) Clip-on meter is also		[2] carries a load current is known
B) Answer the following : i) Explain the working ii) Explain the power fa	•	[6] vith a neat block diagram. diagram.
C) Answer the following: State two advantages of	spring control method	[2] for providing controlling torque.
A) Define the following: i) Seebeck effect ii) Sensitivity of PMMC	instrument.	[2]
•	•	[6] any 2 probes used in a CRO.

unknown resistance.



	C)	Answer the following:	[2]
		State any four advantages of digital multimeter over analog multimeter.	
3.	A)	Fill in the blanks :	[2]
		i) Megger is a combination of generator and	
		ii) The instrument used to measure angular speed is	
	B)	Answer the following:	[3]
		Explain the Repulsion type moving iron instrument with a neat diagram.	
	C)	Answer any one of the following in detail:	[5]
	-,	i) Explain the cup-type Anemometer with a neat diagram. State the use of Anemometer instrument.	
		OR	
		ii) Explain the output power meter with a neat block diagram. State the use of output power meter.	
4.	A)	Answer the following:	[2]
		i) Name any 2 asymmetrical crystalline materials used in Piezoelectric	
		transducer.	
		ii) Name the circuit that converts the unknown frequency into pulses in a digital frequency meter.	
	B)	Answer the following:	[3]
		$\label{eq:decomposition} \mbox{Draw a neat diagram of DC tachometer generator. State any one advantage.}$	
	C)	Answer any one of the following in detail:	[5]
	,	i) Explain the working of LVDT with a neat diagram.	
		OR	
		ii) Explain the capacitive transducer with a neat diagram. State one advantage.	
5.	An	swer the following:	[10]
	i)	Distinguish between single phase energymeter and single phase wattmeter. (4 points)	
	ii)	State and explain any two applications of CRO.	
	iii)	Explain the calibration of DC voltmeter using potentiometer with a neat diagram.	
	,	State any four uses of Megger.	
	-	Define pH value of a solution. Write the pH values for acidic and alkaline solution.	
			

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