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Electrical/III CBSGS

	QP Code: NP-18711	70 _N
	Elect & Elex Measurement (3 Hours) [Total Marks:	80
		1
N. B. :	(1) Question No. 1 is compulsory.	1
	(2) Solve any three out of remaining five questions.	
	(3) Figures to the right indicate full marks.	
	(4) Assume data, if necessary.	
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1. Sc	AND	2û
2.0	(a) Explain measurement of medium resistance using wheatstone bridge.	
	(b) Explain different types of delector used in ac bridge.	
	(c) Write advantages and disadvantages of Hay's bridge.	
	(d) Explain resolution and sensitivity of digital meter.	
	(e) Differentiate indicating and intigrating instruments.	
	(f) What is the basic requirement of transducer.	
2. (a	What are different types of error that occur duing measurement, explain each.	1.0
100	V Francisco sociale at 1 1 1 C 1:	10
(0,	also write its advantage and disadvantage.	10
3. (a)	Explain construction, working principle and operation of LVDT.	10
(b)	Explain with phasor diagram how schoring bridge can be used to measure	10
	unknown capacitor.	
4. (a)	g. it is a bic. potentionicter can be used for	0
	(i) Calibration of a voltmeter	
	(ii) Calibration of an ammeter	
71.	(iii) Calibration of wattmeter	
(b)	by the property of the propert	()
	advantages and disadvantage of piezoelectric transducer.	
5 (0)	Duranth Alice at a West and a second at the	
5. (a)	But a proportional to mat a might	0
(h)	of the moving coil	
(b)	Explain working of digital frequency meter and show it is useful for time 1 interval measurement.	0

- 6. Write short notes on :-
 - Explain the construction and working of digital technometer.
 - Explain the construction and working of Resistance Temperature Detector (RTD).