eat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (OLD) - EXAMINATION - SUMMER 2017

Subject Code: 130903	Date: 09/06/2017
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Subject Name: Electrical and Electronics Measuring Instruments

Time: 10:30 AM to 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Explain PMMC instrument with neat sketches.	07
	(b)	Explain 1-phase Induction type Watt hour meter with neat sketches.	07
Q.2	(a)	Discuss construction & working of Galvanometer.	07
	(b)	Define true value, accuracy, precision, error, sensitivity, resolution & creeping. OR	07
	(b)	Explain Resistance standards.	07
Q.3	(a)	Explain Moving iron instrument with neat sketches.	07
	(b)	Discuss power factor meter.	07
		OR	
Q.3	(a)	Discuss Synchoscope & it's applications.	07
	(b)	Explain Differential amplifier type of Electronic Voltmeter.	07
Q.4	(a)	Explain Electrodynamometer type instrument with neat sketches.	07
	(b)	Discuss Extension of range of instruments.	07
		OR	
Q.4	(a)	Explain construction & operation of Hot wire instruments.	07
	(b)	Explain Electrostatic type instrument with neat sketches.	07
Q.5	(a)	Explain Drysdale polar A.C. potentiometer with neat sketches.	07
	(b)	Discuss applications of DC potentiometer.	07
	()	OR	
Q.5	(a)	Discuss frequency meter.	07
-	(b)	Explain Measurement of power in three-phase circuits by 2-wattmeter method.	07
