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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– VI (Old) EXAMINATION – WINTER 2019

Subject Code: 160905 Date: 06/12/2019

Subject Name: Electrical & Electronic Measurement

Time: 02:30 PM TO 05:00 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)	Define following terms (1) Accuracy (2) precision (3)precision index (4) sensitivity (5)Resolution (6) Drift (7) Linearity	**07**
Q.2 (a)	Explain Maxwell's bridge with vector diagram.	**07**
(b)	Explain Owen's bridge with advantages and disadvantages.	**07**
	OR	
(b)	Explain Hay's bridge.	**07**
Q.3 (a)	Explain the difficulties with measurement of high resistance.	**07**
(b)	Write short note on Megger.	**07**
	OR	
Q.3 (a)	Explain Wheatstone bridge.	**07**
(b)	Explain measurement of resistance by substitution method.	**07**
Q.4 (a)	Describe the method for determination of B-H curve of magnetic material.	**07**
(b)	Discuss the continuity test conducted on long length cables.	**07**
	OR	
Q.4 (a)	Discuss principle and working of digital LCR meter.	**07**
(b)	Describe the varley loop test for localization of ground and short circuit fault in cables.	**07**
Q.5 (a)	Discuss applications of spectrum analyzer.	**07**
(b)	Explain frequency selective wave analyzer with block diagram.	**07**
	OR	
Q.5 (a)	Explain any one method of CT testing.	**07**
(b)	Explain construction of CVT.	**07**

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