BIEE-007

Image: Construction B.Tech. IN ELECTRICAL ENGINEERING (BTELVI) Image: Construction (BTELVI) Image: Construction Term-End Examination

June, 2012

BIEE-007 : ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

Time : 3 Hours		Maximum Marks : 70	: 70
Note :	Attempt any seven questions.		-
	All questions carry equal marks	5 . -	

- Describe the construction and working of a 10 Ballistic Galvanometer. List out the differences between a ballistic Galvanometer and a D'Arsonval Galvanometer.
- Define the term standards as pertaining to 10 measurements. Explain the concepts of Absolute and Working standards.
- Explain the working of attraction type and 10 repulsion type of moving iron instruments with the help of neat diagrams.
- Describe the construction and working of an Earth 10 Tester. Explain how it can be used for measurement of resistance of an earthing electrode ?

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P.T.O.

- Draw the block diagram of a Hetrodyne 10 Harmonic Analyzer and explain its working.
- Explain with a circuit diagram how the Kelvin's 10 double bridge is used for measurement of low resistance. Derive the condition for balance in the measurement.
- Describe the Murray loop test for localization of 10 ground and short circuit faults in cables.
- Sketch the deflection system for Dual Beam CRO 10 and explain its operation.
- 9. With the help of a neat diagram, explain the basic 10 construction of a cathode ray tube and discuss its operation.
- 10. Describe with a circuit diagram how a PMMC 10 instrument can be used as a DC Ammeter.

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