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**BIEE-007** 

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P.T.O.

## B.Tech. - VIEP - ELECTRICAL ENGINEERING (BTELVI)

00143

Term-End Examination
December, 2016

## BIEE-007 : ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

Maximum Marks: 70 Time: 3 hours Note: Attempt any seven questions. All questions carry equal marks. What are the different types of static and 1. dynamic characteristics of a measurement system? 10 Derive the expression for deflecting torque for a 2. moving coil instrument. 10 3. What are the methods of measurement of insulation resistance? Explain the loss of charge method in detail. 10 4. Explain the construction and working of a dynamometer type wattmeter. 10 Describe the method for localization of cable fault 5.

by Murray and Varley loop tests.

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6.	pote	at are the differences between DC and AC entiometers? Explain the working of sdale potentiometer.	10
7.	met	What do you mean by photometry? Explain the nethods for measurement of illumination of ifferent light sources.	
8.	•	explain the constructional features and working a Dual Trace Oscilloscope.	
9.	Write short notes on any <b>two</b> of the following: $2\times5=10$		
	(a)	Hibbert's Magnetic Standard	
	(b)	Harmonic Analyzer	
	(a)	Shunta and Multiplians	

(d)

Polar Curves