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BIEE-007

B.Tech. IN ELECTRICAL ENGINEERING (BTELVI)

Term-End Examination

June, 2011

BIEE-007 : ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

<i>Time</i> : 3	hours	Maximum Marks : 70
Note :	(1) Attempt any seven question	15.

(2) All questions carry equal marks.

- Describe static characteristics of measurement 10 systems with suitable examples and figure.
- Draw and explain the PMMC instrument in brief, 10 also write its torque equation.
- **3.** Explain the working of electro-dynamo meter **10** type watt meter, also write its torque equation.
- With the help of neat block diagram, explain the 10 working of Harmonic analyzer.
- Derive the expression for bridge sensitivity for 10 Wheat-Stone bridge.

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- 6. How will you measure the value of unknown 10 inductance of a coil by using Maxwell's Inductance bridge ?
- Describe the method of reversals of obtaining the 10
 B-H curve with neat circuit diagram and supporting equations.
- Draw and explain average responding voltmeter 10 by using bridge rectifier circuit.
- Draw and explain the block diagram of a general 10 purpose CRO. Also write the classification of oscilloscope.
- 10. Write short notes on *any two* of the following :
 - (a) Moving Iron Instrument

2x5=10

- (b) Energy meter
- (c) Dual trace CRO

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