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Printed Pages : 2

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BT-4 / M-19

**ELECTRONIC MEASUREMENT AND  
INSTRUMENT**

**Paper-ECE-204 N, Opt. (I)**

*Time allowed : 3 hours]*

*[Maximum marks : 75*

*Note : Attempt any five questions by selecting at least one from each unit.*

**Unit-I**

1. (a) Explain Carey Foster Bridge method for measurement of Resistance.  
(b) Explain the methods for the measurements of Insulation resistance. 15
2. What are the various general characteristics of measuring instruments? Distinguish between systematic error and Random error. How is random error find out and corrected? Also differentiate between accuracy and precision with help of suitable example. 15

**Unit-II**

3. (a) Explain X-Y recorder and magnetic tape recorder.  
(b) Explain working of CRO with the help of suitable diagram. 15
4. Explain with circuit and suitable equations how we can measure unknown inductance using Maxwell inductance Capacitance Bridge? 15

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[Turn over

(2)

**Unit-III**

5. Write short note on : 15  
(a) Wave analyzer  
(b) Distortion meter
6. Write short note on : 15  
(a) Digital Display methods  
(b) Digital Voltmeters

**Unit-IV**

7. Write short note on : 15  
(a) Strain Gauge  
(b) Thermocouples and Thermistors
8. Write short note on : 15  
(a) Multiplexing  
(b) Analog and Digital Data Acquisition systems

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