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Total No. of Questions :81

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EX-604

B.E. VI Semester

Examination, June 2017

Electronic Instrumentation

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer any five questions.

ii) All questions carry equal marks.

- Discuss the considerations in selecting electronic voltmeter. Also explain the advantages of using electronic voltmeter.
 - Draw the circuit diagram and explain the working of a electronic chopper type d.c. voltmeter.
- Draw the block diagram of CRO and explain the function of each block.
 - Explain the working principle of dual trace and dual beam oscilloscope and compare them.

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- Draw the circuit diagram of Maxwell's inductance bridge. Derive the expression for measurement of unknown parameters.
 - Explain the working of basic O-meter and Describe how the Q-meter can be used for the measurement of high impedance. X

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- 4. a) Define transducers. Give classification of transducers.
 - Explain function, principle and working of strain gauge. Define expression for gauge factor of strain gauge.
- 5. a) With help of block diagram explain the working of function generator.
 - With the help of circuit diagram explain the working principle of basic wave analyzer.
- Compare digital instruments over analog instruments.
 - b) With the help of block diagram give the working principle of dual scope digital voltmeter.
- How uncertainty measurement is done with scalar and vector network? Explain.
 - b) Describe the working principle of optical time domain reflectometry.

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- Write short notes on any two of the following:
 - Storage oscilloscope
 - Wein's bridge
 - LVDT
 - Digital frequency meter
 - RS 232C and IEEE 488

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