Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

EX-604 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Electronic Instrumentation

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.

ii) All questions carry equal marks.

1. a) Explain the working principle of differential amplifier type electronic voltmeter.
   b) Explain the principle working of chopper amplifier type of voltmeter.

2. a) Explain the principle working of electronic multimetux.
   b) Discuss the working principle of Calorimeter.

3. a) With the help of block diagram explain the working of CRO.
   b) Discuss about Dual Trace and Dual Beam CRO.

4. Discuss the working and application of following bridges.
   a) Maxwell's Inductance capacitance bridge
   b) Andersons bridge
   c) Schering bridge
   d) Hays bridge

5. a) Discuss the working of strain gauge and calculate the gauge factor.
   b) Explain the working and characteristic of moving coil and ribbon type microphone.

6. a) With the help of block diagram explain the working of function generator.
   b) Discuss the principle working of sweep generator.

7. a) Explain the working of Dual slope integrator type Digital voltmeter.
   b) Discuss briefly about Network analyser.

8. Write short notes on any two of the following:
   a) LVDT
   b) Harmonic distortion analyser
   c) OTDR

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120