

Total No. of printed pages = 2

Et-402/ET&M/4th Sem/2015/M

## ELECTRONICS TEST AND MEASUREMENT

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer any *five* questions.

1. (a) Draw a neat sketch of a CRT showing its different parts.  
  
(b) Name different front panel controls of a CRO. 8+6=14
  
2. Explain the construction and operation of an electronic multimeter. 14
  
3. Draw the block diagram of a function generator and explain its principle of operation. 14

Or

Draw the block diagram of spectrum analyzer and explain its working principle. 14

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4. (a) How harmonic distortion can be measured using a harmonic distortion analyzer ? Discuss.

(b) What is total harmonic distortion ?

12+2=14

5. How can you measure frequency and time period using frequency counter ? 14

6. Explain the method of measurement of power with the help of Bolometers. 14

7. Draw the block diagram of an automated measurement system and explain its working principle. 14

8. Write short notes on any two : 2×7=14

(a) IEEE bus interface

(b) Wave analyzer

(c) Signal generator

(d) Digital multimeter.