Flectronic Instruments

24/12/08

Con.	5067	-08
------	------	-----

RC-6149

2

(3 Hours)	[Total Marks :	100

N.B.: (1)	Question No. 1	l is compulsory.
-----------	----------------	------------------

- (2) Attempt any four questions out of remaining six questions.
- (3) Figures to the right indicate full marks.
- (a) State the performance characteristics of DVM.
 (b) State the specifications of Dual trace CRO.
 (c) Requirements of Analog type of multimeter.
 - (d) The requirement of a laboratory type signal generator.
- 2. (a) Explain the response of a second order instrument for step and ramp 10 inputs.
 - (b) Explain with block diagram the successive approximation type of DVM. 10
- 3. (a) Draw the neat block diagram of function generator and explain the same. 10
 - (b) Explain the working of an Analog Electronic Phasemeter. Also state the 10 limitation of it.
- 4. (a) Draw the set up diagram of component testor in CRO. Draw waveforms 10 for various components.
 - (b) Explain the functions of various controls on the front panel of a C.R.O. 10
- 5. (a) With block diagram, explain AF sine and square wave generator.
 - (b) Draw a block diagram and discuss the working of Digital Frequency Meter. 16
- 6. (a) Explain LVDT with its characteristics and its application in measurement. 10
 - (b) What is gauge factor with respect to stain gauge? Explain working of 1 strain gauge.
- 7. Write short notes on any three of the following:-
 - (a) Level Transducer
 - (b) Data Acquisition System
 - (c) Active Filter
 - (d) Digital Storage C.R.O.
 - (e) Lissajous Pattern.