

Answer any five questions
All questions carry equal marks

- 1.a) Explain the following: [8+7]
 - i) Sensitivity
 - ii) Resolution
 - iii) Static sensitivity
 - iv) Absolute error.
- b) Explain the dynamic characteristics of a measuring system. [8+7]

- 2.a) Explain the operation of a square wave generator.
- b) Draw the block diagram of a multimeter and explain its function detail. [7+8]

- 3.a) Explain about spectrum analyzer with a neat block diagram.
- b) Write in detail about signal generator with a neat sketch. [8+7]

- 4.a) Discuss the specifications and applications of LVDT.
- b) Explain the operation of RTD with a neat sketch. [8+7]

5. Explain the measurement of the following physical quantities with transducers.
 - a) Velocity
 - b) High pressure. [7+8]

- 6.a) Draw the simplified block diagram of the sampling oscilloscope and explain.
Draw the wave forms.
- b) Explain different modes of operation of the above oscilloscope. [9+6]

- 7.a) Write about the operation of Twin T Bridge with a neat circuit diagram.
- b) Explain the measurement of resistance using Wheatstone bridge. [8+7]

8. Draw the block diagram of CRT. Explain different types of deflections in a CRT.
Derive the relevant expressions. [15]