

Q.P. Code :25047

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B: 1. Question No 1 is compulsory.
2. Solve any three questions from remaining.

- Q.1. Solve any four: - 20
a) Explain static and dynamic characteristics of instruments.
b) Draw Schering Bridge. List application of it.
c) Draw and explain the venturi meter for flow measurement.
d) Define the following terms.
(I)Accuracy. (ii)Resolution. (iii)Hysteresis. (iv)Calibration. (V) Sensitivity.
- Q.2. a) Explain strain gauge transducer. Derive its gauge factor. 10
b) Write short note on "Data Acquisition System". 10
- Q.3. a) Explain in details voltage and frequency measurement using CRO. 10
b) Describe different features of DSO along with its application. 10
- Q.4. a) Draw and explain McLeod gauge for pressure measurement. 10
b) Draw and explain the construction and working of linear variable Differential transformer 10
- Q.5. a) Compare RTD and Thermocouple with construction, working and application. 10
b) Draw and explain the turbine flow meter 10
- Q.6. Write Short Notes on. 20
i. PLC s.
ii. Data logger.
iii. Capacitance sensor.
iv. Q meter.
