

Total No. of Questions : 6]
P506

SEAT No. :
[Total No. of Pages : 1

TE/Insem/APR - 38
T.E. (Chemical)
Process Instrumentation and Control
(Semester - II) (2012 Pattern)

Time : 1½ Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) All questions carry equal marks.*
- 2) Figures to the right indicate full marks.*
- 3) Neat diagrams must be drawn wherever necessary.*

Q1) Explain Static & Dynamic characteristics of measuring systems. **[10]**

OR

Q2) Explain the following : **[10]**

- a) Data Acquisition System.
- b) Describe transducers with their desirable characteristics.

Q3) Explain principle, construction and working of thermocouples. **[10]**

OR

Q4) Explain principle, working of mercury glass thermometer, also explain its advantages disadvantages and applications. **[10]**

Q5) State construction, working principle and application of Diaphragm Pressure Gauge. **[10]**

OR

Q6) Explain the following : **[10]**

- a) Digital Pressure transducers.
- b) Electrical strain gauges.

