

- Q.27 Explain the Bridgman gauge for pressure measurement.
- Q.28 Explain level measurement by using capacitive transducer.
- Q.29 Write short note on orifice plate.
- Q.30 Explain working principle of rotameter and write advantage and disadvantage.
- Q.31 Write a short notes of Burdon tube, bellows and diaphragm.
- Q.32 Explain temperature measurement by using optical thermometer.
- Q.33 Describe any one method for low pressure measurement.
- Q.34 Explain Hot wire nanometer for flow measurement .
- Q.35 Write a shorts notes of turbine flow meter.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain construction, principle of working of Ionization gauge for measurement of low Pressure.
- Q.37 Explain the inclined type of U tube manometer with mathematical equation.
- Q.38 Describe the time difference and frequency difference method for flow measurement.

No. of Printed Pages : 4
Roll No.

181554/121554/031554

5th Sem / IC, EI Subject:- Process Instrumentation

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 RTD is measurement of.
- | | |
|-------------|----------------|
| a) level | b) Temperature |
| c) Pressure | d) Flow |
- Q.2 Pascal is unit of
- | | |
|----------------|-------------|
| a) Temperature | b) Level |
| c) Pressure | d) Humidity |
- Q.3 Radiation pyrometer is used for
- | | |
|----------------|------------------|
| a) Temperature | b) Pressure |
| c) level | d) None of these |
- Q.4 Meaning of Pyro is _____
- | | |
|-----------|--------------|
| a) Light | b) Wight |
| c) Liquid | d) Radiation |

- Q.5 Pirani Gauge is used to measure _____
- a) Low pressure b) High pressure
c) Medium pressure d) All of these
- Q.6 Working principle of thermocouple is _____
- a) Halls effect
b) Electromagnetic Radiation
c) Seeback effect
d) None of these
- Q.7 Unit of Time is _____
- a) Hz b) Meter
c) Second d) Pascal
- Q.8 Rotameter is used for measurement of
- a) flow b) level
c) Pressure d) Temperature
- Q.9 Capacitive device are used for the level measurement of type of liquid is
- a) Conducting b) Non conducting
c) Both a & b d) none of these
- Q.10 Principle used in ultrasonic flow meter is
- a) Doppler Effect b) Seeback effect
c) Hall effect d) None of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write 4 unit of pressure
- Q.12 Draw the diagram of orifice plate.
- Q.13 What is the temperature
- Q.14 Write two method of level measurement
- Q.15 Ionization gauge is use to measure _____ pressure.
- Q.16 What is atmospheric pressure.
- Q.17 What is pyrometer.
- Q.18 Draw the U tube manometer
- Q.19 Thermistor is used for
- Q.20 What is the density.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the see back effect.
- Q.22 Defined U tube manometer in pressure measurement.
- Q.23 Describe temperature.
- Q.24 Explain the working of rotameter.
- Q.25 Write 4 elastic devices for pressure measurement.
- Q.26 Explain working principle electromagnetic flow meter.