

- 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.

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Subject:- Process Instrumentation

Time : 3Hrs. M.M. : 100

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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) Seebek 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) Seebek 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.