

## INSTRUMENT QUESTION & ANSWERS

### INTRODUCTION :

It is the branch of engineering which deals with the measurement, monitoring, display etc. of the various of energy exchanges which take place during process operations. "In short Instrumentation is the study of Instrument."

### INSTRUMENT :

Instrument is a devices which is used to measure, monitor, display etc. of a process variable.

#### 1. What are the process Variables?

The process Variables are:

- Flow.
- Pressure.
- Temperature.
- Level.
- Quality i. e. % O<sub>2</sub>, CO<sub>2</sub>, pH etc.

#### 2. Define all the process Variable and state their unit of measurement. ?

**Flow :** Defined as volume per unit of time at specified temperature and pressure

Conditions, is generally measured by positive-displacement or rate meters.

**Units :** kg / hr , liter / min, gallon / min , m<sup>3</sup> / hr , Nm<sup>3</sup> / hr. ( gases )

**Pressure :** Force acting per unit Area.  $P = F/A$

**Units :** bar , pascal , kg / cm<sup>2</sup> , lb / in<sup>2</sup>.

**Level :** Different between two heights.

**Units :** Meters, mm, cm, percentage.

**Temperature :** It is the degree of hotness or coldness of a body.

**Units :** Degree Centigrade, Degree Fahrenheit, Degree Kelvin, Degree Rankine.

**Quality :** It deals with analysis. ( pH, % CO<sub>2</sub>, % O<sub>2</sub>, Conductivity, Viscosity )

#### 3. What are the primary elements used for flow measurement ?

The primary elements used for flow measurement are :

- Orifice Plate.
- Venturi tube.
- Pitot tube.
- Annubars.
- Flow Nozzle.
- Weir & Flumes.

#### 4. What are the different types of orifice plates and state their uses ?

# Instrumentation Test Questions And Answers

**RJ Alexander**



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