

## Process Control Instrumentation Objective Questions and Answers

1. Which of the following thermocouples has the least temperature measurement range?
  - a. Copper-constantan
  - b. Chromel alumel
  - c. Platinum-platinum/rhodium
  - d. Iron-constantan

Ans: A

2. Which of the following is not a composition measuring instrument?
  - a. thermal conductivity cell
  - b. mass spectrometer
  - c. polarograph
  - d. hot wire anemometer

Ans: D

3. Gas chromatography is used for the measurement of
  - a. Temperature
  - b. Pressure
  - c. Concentration
  - d. Flow rate

Ans: C

4. When a bare thermocouple is covered by a protective sheath, the response because
  - a. Faster and oscillatory
  - b. Faster and non oscillatory
  - c. Slower and oscillatory
  - d. Slower and non oscillatory

Ans: D

5. Air velocity in duct can be measured by using \_\_\_\_ and manometer.
  - a. Orificemeter
  - b. Pitot tube
  - c. Bourdon gauge
  - d. Anemometer

Ans: B

6. A high controller gain setting is the same as
  - a. A minimum offset
  - b. High reset
  - c. Low sensitivity
  - d. Narrow proportional band

Ans: D

7. Which of the following is the most accurate instrument?
  - a. Steel scale
  - b. Micrometer screw gauge
  - c. Vernier caliper
  - d. Optical projector

Ans: D

8. Hot wire anemometer is used for the measurement of
- Flow rates of fluids
  - Flow rates of granular solids
  - Very high temperature
  - Thermal conductivity of gases

Ans: A

9. Thermocouple is suitable for measuring
- Liquid temperatures only
  - Very high temperatures only
  - Very low temperatures only
  - Both high and low temperatures

Ans: D

10. Tachometer measures the
- composition of an alloy
  - flow rate of a fluid
  - temperature
  - speed of a flywheel

Ans: D

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