

Instruments and Measurement Multiple Choice Questions & Answers Pdf

1. The e.m.f. of a Weston standard cell can be measured by
- a. potentiometer
 - b. galvanometer
 - c. hot wire voltmeter
 - d. electrodynamic type voltmeter

Ans: A

2. The temperature of a furnace can be measured by
- a. bimetallic thermometer
 - b. mercury thermometer
 - c. clinical thermometer
 - d. optical pyrometer

Ans: D

3. The internal resistance of a voltmeter must be very high so that
- a. minimum current passes through the meter
 - b. range is high
 - c. accuracy is high
 - d. loading effect is maximum

Ans: A

4. A power factor meter has _____ control springs.
- a. one
 - b. two
 - c. four
 - d. no

Ans: D

5. In electrical measuring instruments, electrical energy is converted to
- a. mechanical energy
 - b. heat energy
 - c. chemical energy
 - d. light energy

Ans: A

6. In an instrument hysteresis means
- a. the inaccuracy due to change in temperature
 - b. the reliability of the instrument
 - c. the repeatability of the instrument
 - d. the change in same reading when input is first increased and then decreased

Ans: D

7. Electrodynamic types of instruments are used commonly for the measurement of

- a. current
- b. resistance
- c. voltage
- d. power

Ans: D

8. An induction wattmeter measures

- a. only the true power
- b. the reactive power
- c. the apparent power
- d. the true power and the reactive power

Ans: A

9. Which of the following cannot be measured by Ring balance meter?

- a. mass flow rate
- b. flow
- c. differential pressure
- d. pressure

Ans: A

10. Which of the following can be measured by a hot wire anemometer?

- a. gas velocities
- b. liquid discharges
- c. very low pressure
- d. pressure of gases.

Ans: A