

Measurement Instrumentation Objective Questions Answers

1. Hysteresis of an instrument means:

- a) The change in the same reading when input is first increased and then decreased
- b) The reliability of the instrument
- c) The repeatability of the instrument
- d) The inaccuracy due to change in temperature

A

2. In which part of the scale does the pointer indicate more accurately

- a) In the first third of the cycle
- b) In the first half of the cycle
- c) In about middle of the scale
- d) In the last third of the cycle

C

3. For measuring an unknown electrical quantity, select the meter with

- a) Highest range and work down
- b) Lowest range and work up
- c) Middle range and can be work up or down depending
- d) Any of the above

A

4. The ratio of maximum displacement deviation to the full scale deviation of the instrument is called:-

- a) Static sensitivity
- b) Accuracy
- c) Linearity
- d) Precision

C

5. A 150 V/moving iron voltmeter of accuracy class 1.0 reads 75 V when used in a circuit under a standard conditions. The maximum possible percentage error in the reading is:

- a) 0.5
- b) 1.0
- c) 2.0
- d) 4.0

C

6. The relative error is the:

- a) Difference of the measured value and the true value
- b) Ratio of absolute error to the measured value of the quantity under measurement
- c) Ratio of the absolute error to the true value of the quantity under measurement
- d) Ratio of the probable error to the true value of the quantity under measurement

C

7. The moving iron voltmeters are likely:

- a) To indicate the same value of the ac as on dc
- b) To indicate higher value of ac than on dc
- c) To indicate lower value of ac than on dc
- d) The moving iron instruments should not be used for dc measurement

C

8. The power measurement in a balanced 3-phase circuit can be done by:

- a) One wattmeter method
- b) Two wattmeter method
- c) Three wattmeter method
- d) Any of the above method

D

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RC Schank



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