

Q111. Random errors in a measurement system are due to .....

Environmental changes  
Use of uncalibrated instrument  
Poor cabling practices  
Unpredictable effects

Ans. 4

Q112. Calibration of instrument is an important consideration in measurement system. The errors due to instruments being out of calibration can be rectified by .....

Increasing the frequency of recalibration  
Increasing the temperature coefficient  
Increasing the susceptibility of measuring instrument  
Decreasing the frequency of recalibration

Ans. 1

Q112. The undesirable characteristics of a measuring system is .....

Drift  
Dead zone  
Non linearity  
All of these

Ans. 4

Q113. If the instrument is used in wrong manner while application, then it will results in .....

Systematic error  
Instrument error  
Random error  
Environmental error

Ans. 2

Q114. Suitable method for the reduction of systematic errors is / are .....

Instrument must be designed carefully  
By introducing an equal and opposite environmental input for compensating the effect of environmental input in a measurement system  
By adding high gain feedback to measurement system  
All of these

Ans. 4

Q115. The systematic errors of an instrument can be reduced by making .....

- The sensitivity of instrument to environmental input as low as possible
- The sensitivity of instrument to environmental input as high as possible
- Systematic errors does not depend on the sensitivity of instrument
- None of these

Ans. 1

Q116. The magnitude of environment – induced variation from the specified calibration condition is quantified by .....

- Sensitivity drift
- Zero drift
- Backlash
- Both (1) & (2)

Ans. 4

Q117. In a moving coil voltmeter, the input resistance of the meter can be increased by .....

- Increasing the number of turns in the coil
- Decreasing the number of turns in the coil
- Using the same number of coil turns made up of high resistance material
- Both (1) & (3)

Ans. 4

Q118. Depending on whether the display is a numeric or alphanumeric, the segmental display is .....

- 7 segmental
- 14 segmental
- 21 segmental
- Either (1) or (2)
- None of the above

Ans. 4

Q119. The measurements which can be simplified by using X – Y recorders is / are .....

- Speed – torque characteristics of motors
- Regulation curves of power supplies
- Hysteresis curves
- All of these

Ans. 4

Q120. Potentiometer is used for the measurement of .....

- Linear displacement
  - Angular displacement
  - Non – linear displacement
  - Only (1) and (2)
  - All the above
- Ans. 4

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