Assignment 1

The due date for submitting this assignment has passed. Due on 2018-02-21, 23:59 IST.

Submitted assignment

1) Unit of light intensity, lux, can be defined as

- lumens/s²
- lumens-m/s²
- lumens
- lumens/m²

No, the answer is incorrect.
Score: 0
Accepted Answers:
lumens/m²

2) 1-furlong distance is equivalent to

- 0.5 miles
- 220 yards
- 250 meters
- 110 yards

No, the answer is incorrect.
Score: 0
Accepted Answers:
220 yards

3) The transducer element in a measurement system serves to

- codify the input signal
- indicate the measurement
- amplify and transmit the measurand
- convert the input signal from one physical form into another

No, the answer is incorrect.
Score: 0
Accepted Answers:
convert the input signal from one physical form into another

4) The intermediate stage of an instrument is used to

- sense the primary signal
- condition and transmit the signal after it has been transduced
- provide a record or indication of the measurements
- give a signal that the desired value has been reached

Score: 0
Accepted Answers: null
No, the answer is incorrect.
Score: 0
Accepted Answers:
condition and transmit the signal after it has been transduced

5) The output stage of a generalised measurement system may comprise a 1 point
- detector-transducer unit
- transmission element to telemeter the data
- indicating or recording unit
- any one of the above depending upon the nature and application of measurement

No, the answer is incorrect.
Score: 0
Accepted Answers:
indicating or recording unit

6) Which of the followings is a wrong statement 1 point
- measurement system seldom provide exact information of the measured quantity
- any measurement is expressed by numerical value alone
- analog instruments cost less and are easy to maintain and repair
- the information collected from the instrumentation system (output) is known as measurement

No, the answer is incorrect.
Score: 0
Accepted Answers:
any measurement is expressed by numerical value alone

7) Which one of the following is correct 1 point
- Error = true value – measured value
- Error = measured value - true value
- Correction = measured value - true value
- Correction = measured value-error

No, the answer is incorrect.
Score: 0
Accepted Answers:
Error = measured value - true value

8) In the digital instruments, the physical variables are represented by digits which are discrete and vary in steps. Which of the following devices gives a digital output? 1 point
- Spring balance
- Thermocouple or thermopile
- Bourdon tube pressure gauge
- Electronic Watch

No, the answer is incorrect.
Score: 0
Accepted Answers:
Electronic Watch

9) Tick the odd one out 1 point
- precision
- accuracy
- amplification
- calibration

No, the answer is incorrect.
Score: 0
Accepted Answers:
amplification
10) Which of the followings is a self-generating type?  
- piezo-electric pickup
- thermocouple
- potentiometer device
- linear variable differential transformer

No, the answer is incorrect.  
Score: 0
Accepted Answers:  
thermocouple

11) All of the following statements are correct, except  
- most of the variables to be measured originate in analog form
- digital signals are noise resistant during transmission
- a mercury-in-glass thermometer has in-built amplifying element
- deflection type instruments are more accurate than the corresponding null type instruments

No, the answer is incorrect.  
Score: 0
Accepted Answers:  
deflection type instruments are more accurate than the corresponding null type instruments

12) Which of the following does not fit into the elements of an instrument?  
- primary sensing element
- variable manipulation element
- variable conversion element
- signal interfering filter element

No, the answer is incorrect.  
Score: 0
Accepted Answers:  
signal interfering filter element

13) The most appropriate clause pertaining to the development of digital instrument is  
- fast reading
- no observation error
- better accuracy
- possibility of the storage of output in a memory card

No, the answer is incorrect.  
Score: 0
Accepted Answers:  
opportunity of the storage of output in a memory card

14) In a measurement, what is the term used to specify the closeness of two or more measurements?  
- Precision
- Accuracy
- Resolution
- threshold

No, the answer is incorrect.  
Score: 0
Accepted Answers:  
Precision

15) Tick the odd one out  
- Error due to faulty components
- Error due to improper application of instrument
No, the answer is incorrect.
Score: 0
Accepted Answers:
Loading error