Week-1 Assignment-1

The due date for submitting this assignment has passed. Due on 2018-02-05, 23:59 IST.

Submitted assignment

Assignment-1
Answer all the multiple choice question.

1) Which of the following is a null type instrument?
   - I) Bourdon pressure gage
   - II) Equal arm balance
   - III) Dead weight pressure gage

   I, II, and III
   I and II only
   II and III only
   I and III only

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   II and III only

2) Which of the following is a non-contacting type instrument?
   - Resistance temperature detector
   - Thermometer
   - Optical pyrometer
   - Bourdon pressure gage

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

3) Compared to null type instruments, accuracy of deflection type instrument is

   higher

   No, the answer is incorrect.
   Score: 0
4) A thermocouple transduces the temperature signal in the form of

- Voltage
- Current
- Resistance
- Capacitance

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

5) The primary sensing element of Bourdon pressure gage is

- Bourdon tube
- Pointer
- Lever
- Gearing

**No, the answer is incorrect.**
**Score: 0**
**Accepted Answers:**
Bourdon tube

6) Which of the following signal vary continuously in a given range?

- Digital signal
- Analog signal
- Both (a) & (b)
- None of the above

**No, the answer is incorrect.**
**Score: 0**
**Accepted Answers:**
Analog signal

7) Which of the following is a function of an instrument?

- Recording
- Transmitting
- Signaling
- All of the above

**No, the answer is incorrect.**
**Score: 0**
**Accepted Answers:**
All of the above

8) The strain gage is used for converting

- Mechanical displacement into change in resistance
- Temperature into change in resistance
- Force into displacement
9) Which of the following methods can be used to eliminate or reduce the effect of interfering inputs and modifying inputs? 1 point
I) Input filtering
II) Output filtering
III) Method of opposing effect

- I only
- II only
- I and II only
- I, II, and III

No, the answer is incorrect. 
Score: 0
Accepted Answers: I, II, and III

10) Select the most appropriate option: 1 point
Temperature is _____________ input to a strain gage
- desired
- interfering input
- modifying
- both interfering and modifying

No, the answer is incorrect. 
Score: 0
Accepted Answers: both interfering and modifying

11) The Bourdon element in a pressure thermometer is 1 point
- Primary sensing element
- Variable conversion element
- Data transmission element
- Data presentation element

No, the answer is incorrect. 
Score: 0
Accepted Answers: Variable conversion element

12) Which of the following statements are true? 1 point
I: Variable Conversion Element modifies the output of the primary sensing element to a physically different form.
II: Variable Manipulation Element changes the magnitude of the signal while preserving the original nature of it.

No, the answer is incorrect. 
Score: 0
Accepted Answers:
Only I is true
Only II is true
Both I and II are true
I is true but II is false

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both I and II are true

The unit used for measuring blood pressure is ________

- mm H2O
- mm Hg
- Pascal
- None of the above

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

An example of null method for voltage measurement _____

- Voltmeter
- Ammeter
- Potentiometer
- Multimeter

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

The unit used for measuring blood pressure is ________

- mm H2O
- mm Hg
- Pascal
- None of the above

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

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