Assignment 11

The due date for submitting this assignment has passed.

1. Which of the devices mentioned below can be used for measuring pressure?
   - Gage
   - Manometer
   - Manometer
   - Dial indicator
   - No, the answer is incorrect.
   Accepted Answer: Dial indicator
   - Points: 1

2. Identify the device which is not a type of pressure sensing element?
   - Pressure gage
   - Manometer
   - Diaphragm
   - No, the answer is incorrect.
   Accepted Answer: Pressure gage
   - Points: 1

3. Which of the following is true for manometer?
   - It measures the pressure difference between two points and measuring liquid
   - It measures the pH difference between two points and measuring liquid
   - It measures the density difference between two points and measuring liquid
   - None of the mentioned
   - Yes, the answer is correct.
   - Points: 1

4. Time constant of a thermocouple is defined as the time required for it to reach 63.2% of a step change in temperature under specific conditions.
   - True
   - False
   - Yes, the answer is incorrect.
   Accepted Answer: False
   - Points: 1

5. The thermometer to be used in a laboratory is:
   - Fahrenheit
   - Kelvin
   - Lik
   - None of the above
   - Yes, the answer is correct.
   Accepted Answer: Kelvin
   - Points: 1

6. Heat transfer coefficient of a material with thermal conductivity 'K' with the length of the heat transfer path, 'L' is given by:
   - K/L
   - L/K
   - K/L
   - None of the above
   - No, the answer is incorrect.
   Accepted Answer: K/L
   - Points: 1

7. Consider the following measurements:
   - 8 and 21 are correct
   - 8 and 31 are correct
   - 8 and 20 are correct
   - None of the above
   - No, the answer is incorrect.
   Accepted Answer: None of the above
   - Points: 1

8. A body is immersed in a hot water bath. How does the body temperature change with time?
   - Logarithmically
   - Polynomially
   - Linearly
   - Exponentially
   - Yes, the answer is correct.
   Accepted Answer: Exponentially
   - Points: 1

9. For measuring temperature in a fluctuating flow field, the time constant of the system should be:
   - As small as possible
   - As large as possible
   - As small as possible
   - None of the above
   - No, the answer is incorrect.
   Accepted Answer: As large as possible
   - Points: 1

10. A room thermometer is dipped in a hot bucket. The system can be represented as:
    - Second order system
    - Zeroth order system
    - First order system
    - Third order system
    - No, the answer is incorrect.
    Accepted Answer: Second order system
    - Points: 1