Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-02-07, 23:59 IST.

1. Change in output of sensor with change in input is ____________
   - Threshold
   - Hydration
   - Accuracy
   - Sensitivity
   No, the answer is incorrect.

2. Ability of the sensor to repeat a measurement when put both in the same environment is called ____________
   - Sensitivity
   - Repeatability
   - Threshold
   - Hydration
   No, the answer is incorrect.

3. What is the respective gauge factor of a p and n type semiconductor strain gauges?
   - p; +100
   - n; +100 and -100
   - p; -100 and +100
   - n; -100 and +100
   No, the answer is incorrect.

4. Optical encoder converts ____________ into sequence of pulses.
   - Linear displacement
   - Angular displacement
   - Both (a) and (b)
   - Neither (a) nor (b)
   No, the answer is incorrect.

5. The mechanical switches are specified in terms of their number of ____________
   - Fuses
   - Threads
   - Both (a) and (b)
   - Neither (a) nor (b)
   No, the answer is incorrect.

6. Which type of numerical encoding is most commonly used in absolute encoders?
   - Block Code
   - Gray Code
   - BCD Code
   - Other Code
   No, the answer is incorrect.

7. For a spring balance type sensor, the force is proportional to ____________
   - Displacement
   - Velocity
   - Acceleration
   - None of the above
   No, the answer is incorrect.

8. In a fluid pressure the gauge pressure is measured with respect to which quantity?
   - Barometric pressure
   - Atmospheric pressure
   - All of the above
   - None of the above
   No, the answer is incorrect.

9. What does the accelerometer measure?
   - Distance
   - Velocity
   - Acceleration
   - None of the above
   No, the answer is incorrect.

10. Select the correct statement about thermocouple.
    - Statement P: An accelerometer can only measure acceleration in one direction
    - Statement Q: In geometrical systems comprising of accelerometers, three separate accelerometers are placed with each on the three body axes of the aircraft.
    - Both statements P or Q are correct
    - Both statements P and Q are wrong
    - Statement P is correct and statement Q is wrong
    - Statement P is wrong and statement Q is correct
    No, the answer is incorrect.

11. Both statements P and Q are correct