Assignment 03

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) An electronic voltmeter has a very low internal impedance. This statement is 1 point
   - True
   - False
   No, the answer is incorrect. Score: 0
   Accepted Answer: False

2) In pneumatic displacement gauge, air is treated as a 1 point
   - Compressible fluid
   - Incompressible fluid
   No, the answer is incorrect. Score: 0
   Accepted Answer: Incompressible fluid

3) The displacement measurement by a pneumatic displacement gauge is 0.5 cm and the diameter of the orifice of the gauge is 0.2 cm. 1 point
   The pneumatic displacement gauge sensitivity of the instrument is
   - 0.1
   - 0.4
   - 2.0
   - 0.2
   No, the answer is incorrect. Score: 0
   Accepted Answer: 2.0

4) The pneumatic displacement gauge sensitivity depends upon the supply pressure. This statement is 1 point
   - True
   - False
   No, the answer is incorrect. Score: 0
   Accepted Answer: True

5) Which of the following statements are true 1 point
   - The pneumatic displacement gauge is mainly used for slow displacement measurement.
   - Pneumatic displacement gauge can be used for both static and dynamic measurements.
   - Pneumatic displacement gauge can also be employed as a dynamic pressure signal transducer.
   No, the answer is incorrect. Score: 0
   Accepted Answer: Both

6) The arms of a polar planimeter are made from 1 point
   - Aluminium
   - Copper
   - Graphite
   - Iron
   No, the answer is incorrect. Score: 0
   Accepted Answer: Graphite

7) The accuracy of a polar planimeter depends upon 1 point
   - The accuracy with which the boundary is drawn
   - Accuracy and resolution of the counter
   - The skill of tracing the boundary with the counter
   All of the above
   No, the answer is incorrect. Score: 0
   Accepted Answer: All of the above

8) The polar planimeter is used to measure 1 point
   - Volume
   - Temperature
   - Polarity
   - Area
   No, the answer is incorrect. Score: 0
   Accepted Answer: Area

9) A power supply has an internal voltage of 5 V and its internal impedance is 0.5 Ohm. What is the power delivered to an external load of 10 Ohm? Enter the answer in the unit of Watt and only up to two decimal places. 1 point
   No, the answer is incorrect. Score: 0
   Accepted Answer: (Type: Range: 0.00 - 0.00)

10) The orifice diameter of a pneumatic displacement gauge is 0.05 cm and the outlet diameter is 0.1 cm. The supply pressure is 50 psi. From the orifice and exit, determine the corresponding displacement measurement. 1 point
    where \( P_1 \) is the supply pressure, \( P_2 \) is the pressure downstream to the orifice and \( P_3 \) is the process pressure, determine the corresponding displacement measurement.

    No, the answer is incorrect. Score: 0
    Accepted Answer: 0.0009 cm