

Q91. In rotary variable differential transformer, the mutual inductance between the primary and secondary coils varies

- Linearly with the angular displacement
- Non – linearly with the angular displacement
- Linearly with the linear displacement
- Non – linearly with the linear displacement

Ans. 1

Q92. LVDT which is an instrument for the measurement of displacement, works on the principal of

- Linear inductance
- Non – linear inductance
- Mutual inductance
- Linear capacitance

Ans. 3

Q93. The instruments used for the measurement of pressure is / are

- Bellows
- Diaphragms
- Fiber optic pressure sensors
- All of these
- None of the above

Ans. 4

Q94. A capacitive pressure sensor has a typical measurement uncertainty of

- One
- Two
- Three
- Four

Ans. 4

Q95. If an instrument transformer is used to extend the ranges of AC instrument, then its reading will depend on

- R
- L
- C
- All of these
- None of these

Ans. 5

Q96. The potential transformers are used to measure large voltage using

- High range voltmeter
 - Low range voltmeter
 - High range ammeter
 - Low range ammeter
- Ans. 4

Q97. Vibration galvanometer are generally used

- For measuring electric charges
 - As null – point detectors in ac bridges
 - As null – point detectors in dc bridges
 - For measuring power
- Ans. 2

Q98. The two wattmeters used for the measurement of power input read 50 kW each. What will be the readings of the two wattmeters if the power factor is changed to 0.8 leading keeping the total input power same?

- 28.35W, 71.65W
 - 31.25W, 73.71W
 - 33.33W, 73.33W
 - 38.35W, 75.5W
- Ans. 1

Q99. For the measurement of unknown inductance in terms of known capacitance, the suitable ac bridges are

- Maxwell and Schering bridge
 - Maxwell and Wien's bridge
 - Maxwell and Hay's bridge
 - Hay's and Wien's bridge
- Ans. 3

Q100. The Wien's bridges is suitable for the measurement of frequency of the range of

- Less than 100 Hz
 - 100 Hz to 100 kHz
 - 1 kHz to 100 MHz
 - More than 100 MHz
- Ans. 2