

## QUIZ – ANSWER KEY

### QUIZ 53

#### TOPIC: ELECTRICAL ENGINEERING

1. An advantage of a permanent magnet moving coil instrument is that it is .....

- [A] free from friction error
- [B] has high (torque/weight of the moving parts) ratio
- [C] has low (torque/weight of the moving parts) ratio
- [D] can be used on both AC and DC

**Answer: B**

2. A moving coil galvanometer is made into a DC ammeter by connecting .....

- [A] a low resistance across the meter
- [B] a high resistance in series with the meter
- [C] a pure inductance across the meter
- [D] a capacitor in series with the meter

**Answer: A**

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3. The moving coil in a dynamometer wattmeter is connected .....

- [A] in series with the fixed coil
- [B] across the supply
- [C] in series with the load
- [D] across the load

**Answer: B**

4. A dynamometer type wattmeter responds to the .....

- [A] average value of active power
- [B] average value of reactive power
- [C] peak value of active power
- [D] peak value of reactive power

**Answer: A**

5. Wheatstone bridge is used to measure the d.c. resistance of various types of wires for \_

- [A] determining their effective resistance
- [B] computing the power dissipation
- [C] quality control of wire
- [D] maintaining a source of constant e.m.f

**Answer: C**

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6. An electric dipole placed with its axis in the direction of a uniform electric field experiences

- [A] a force but no torque
- [B] a torque but no force
- [C] a force as well as a torque
- [D] neither a force nor a torque

**Answer: D**

7. The charge build up in the capacitor is due to which quantity?

- [A] Conduction current
- [B] Displacement current
- [C] Convection current
- [D] Direct current

**Answer: B**

8. Two infinite parallel metal plates are charged with equal surface charge density of the same polarity. The electric field in the gap between the plates is:

- [A] same as that produced by one plate.
- [B] double the field produced by one plate.
- [C] dependent on coordinates of field points.
- [D] zero.

**Answer: D**

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9. The materials having low retentivity are suitable for making .....

- [A] weak magnets
- [B] temporary magnets
- [C] permanent magnets
- [D] none of the above

**Answer: B**

10. Midway between two equal and similar charges, a third equal and similar charge is placed, then this third charge will

- [A] remain in stable equilibrium.
- [B] be in unstable equilibrium.
- [C] not be in equilibrium.
- [D] will move out of the field of influence of two charges.

**Answer: A**

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