

## QUIZ – ANSWER KEY

### QUIZ 49

#### TOPIC: ELECTRICAL ENGINEERING

1. The force of attraction or repulsion between two magnetic poles is inversely proportional to the square of the distance between them. This is known as

- [A] Newton's first law
- [B] Faraday's first law of electromagnetic induction
- [C] Coulomb's first law
- [D] Coulomb's second law

**Answer: D**

2. The polarity of induced voltage while a field is collapsing is

- [A] Independent of the force creating the field
- [B] Opposite to the force creating the field
- [C] Identical to the force creating the field
- [D] Present only if the force is stationary

**Answer: B**

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3. Comparing superparamagnetic and ferromagnetic materials, which statement is false ?

- [A] Ferromagnetism is usually more powerful than superparamagnetism
- [B] Ferromagnetism persists when the magnetizing field is removed
- [C] Superparamagnetism persists once the external field is removed
- [D] Superparamagnetism can be thought of as a single-domain particle

**Answer: C**

4. Lower the self inductance of a coil

- [A] More will be the weber turns
- [B] More will be the emf induced
- [C] Lesser the flux produced by it
- [D] Smaller the delay in establishing steady current through it

**Answer: D**

5. It is difficult to magnetize steel because of its

- [A] High density
- [B] High retentivity
- [C] Low permeability
- [D] High permeability

**Answer: C**

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6. To reduce the error in voltmeter and ammeter due to friction torque
- [A] The torque weight ratio must be small
  - [B] The weight of moving system must be made as large as possible
  - [C] The torque weight ratio must be large
  - [D] The torque of moving system must be small

**Answer: C**

7. When 3 phase power is measured by 2 wattmeter method one of the wattmeter will read zero power
- [A] If the load power factor is unity
  - [B] If the load power factor is zero
  - [C] If the load power factor is less than 0.5
  - [D] If the load power factor is 0.5

**Answer: D**

8. Light load compensation of integrated type energy meter is done by
- [A] Shading band
  - [B] Breaking magnet
  - [C] Shading loop
  - [D] Lag plate

**Answer: C**

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9. Single phase electrodynamicometer power factor meter consists of
- [A] Two identical pressure coils and one current coil which is split up into two parts
  - [B] One pressure coil and two identical current coils
  - [C] One pressure coil and one current coil
  - [D] None of these

**Answer: A**

10. One pressure coil and one current coil
- [A] Dependent of the secondary circuit conditions
  - [B] Independent of the secondary circuit conditions
  - [C] Depends upon the secondary burden
  - [D] None of these

**Answer: B**

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