

QUIZ – ANSWER KEY

QUIZ 46

TOPIC: ELECTRICAL ENGINEERING

1. If a resistance is inserted in the rotor circuit of a slip ring induction motor, then compared to direct line starting _____

- [A] Both the starting current and torque reduce
- [B] Both the starting current and torque increase
- [C] The starting current reduces but starting torque increases
- [D] The starting current reduces but starting torque

Answer: C

2. The starting torque of a wound rotor induction motor can be increased by adding__

- [A] external capacitance to the rotor circuit
- [B] external inductance to the rotor circuit
- [C] a combination of inductance and capacitance to the rotor circuit
- [D] external resistance to the rotor circuit

Answer: D

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3. Which device is used in sub-stations to improve the power factor?

- [A] Synchronous reactor
- [B] Series inductor
- [C] Synchronous condenser
- [D] Series capacitor

Answer: C

4. What is the maximum load that can be connected in a circuit containing only lighting points?

- [A] 500 watts
- [B] 750 watts
- [C] 800 watts
- [D] 1000 watts

Answer: C

5. The pitch factor, in rotating electrical machinery, is defined as the ratio of resultant EMF of a _____

- [A] Full pitch coil to the phase emf.
- [B] Chorded coil to that of full pitched coil.
- [C] Full pitched coil to that of a chorded coil
- [D] Chorded coil to the phase emf

Answer: B

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6. The qualities aspired to obtain a good permanent magnet is/are _____
- [A] High coercivity
 - [B] High residual flux
 - [C] Low coercivity
 - [D] High residual flux and high coercivity

Answer: D

7. Input and output impedance of ideal OP-AMP will be?
- [A] Zero, Zero
 - [B] Zero, Infinite
 - [C] Infinite, Infinite
 - [D] Infinite, Zero

Answer: D

8. Breather is provided in a transformer to.....
- [A] Absorb moisture of air during breathing
 - [B] provide cold air in the transformer
 - [C] The filter of transformer oil
 - [D] None of above

Answer: A

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9. Choose the characteristics which are not related to an ideal OP-AMP.

- [A] Very high gain
- [B] Very high input impedance
- [C] Very low CMRR
- [D] Very low output impedance

Answer: C

10. A single-phase transformer with a 2-kVA rating has a 480-V primary and a 120-V secondary. Determine the primary and secondary full-load currents of the transformer.

- [A] 4.17 A and 16.67 A
- [B] 10 A and 13.2 A
- [C] 6 A and 16.67 A
- [D] Insufficient Data

Answer: A

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