

QUIZ – ANSWER KEY

QUIZ 54

TOPIC: ELECTRICAL ENGINEERING

1. The direction of rotation of a single-phase capacitor run induction motor is reversed by

- [A] interchanging the terminals of the AC supply
- [B] interchanging the terminals of the capacitor
- [C] interchanging the terminals of the auxiliary winding
- [D] interchanging the terminals of both the windings

Answer: C

2. A stand alone engine driven synchronous generator is feeding a partly inductive load. A capacitor is now connected across the load to completely nullify the inductive current. For this operating condition is

- [A] the field current and fuel input have to be reduced
- [B] the field current and fuel input have to be increased
- [C] the field current has to be increased and fuel input left unaltered
- [D] the field current has to be reduced and fuel input left unaltered

Answer: D

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3. Starting torque can be obtained in the case of a single phase induction motor with identical main and auxiliary windings by connecting

- [A] a capacitor across the mains
- [B] a capacitor in series with the machine
- [C] a capacitor in series with the auxiliary winding
- [D] the main and the auxiliary windings in series

Answer: C

4. The type of single-phase induction motor having the highest power factor at full-load is

- [A] shaded pole type
- [B] split-phase type
- [C] capacitor-start type
- [D] capacitor-run type

Answer: D

5. If an induction machine is run at above synchronous speed, it acts as

- [A] a synchronous motor
- [B] an induction generator
- [C] an induction motor
- [D] none of the above

Answer: B

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6. In amplitude modulation

- [A] The amplitude of the carrier kept constant
- [B] Change occurs in the carrier frequency
- [C] Amplitude is varied according to the instantaneous value of modulating wave
- [D] None of these

Answer: C

7. A moving iron type ammeter has few turns of thick wire so that

- [A] Resistance is less
- [B] Sensitivity is high
- [C] Damping is effective
- [D] Scale is large

Answer: A

8. Synchronous motor can be used for power factor improvement when it operates with

- [A] Over excitation
- [B] No excitation
- [C] Normal excitation
- [D] Under excitation

Answer: A

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9. When compared with BJTs, MOSFETs have lesser turn-off time, enabling them to operate at high operating frequencies. What is the reason that can be attributed to that property?

- [A] The absence of minority storage charge in the MOSFETs
- [B] High input impedance of the MOSFETs
- [C] Positive temperature coefficient of the MOSFETs
- [D] smaller leakage current of MOSFETs

Answer: A

10. In the formation of Routh-Hurwitz array for a polynomial, all the elements of a row have zero values. This premature termination of the array indicates the presence of

- [A] Only one root at the origin
- [B] Imaginary roots
- [C] Only positive real roots
- [D] Only negative real roots

Answer: B

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