

QUIZ – ANSWER KEY

QUIZ 39

TOPIC: ELECTRICAL ENGINEERING

1. Out of the following methods of heating the one which is independent of supply frequency is
- [A] Electric arc heating
 - [B] Induction heating
 - [C] Electric resistance heating
 - [D] Dielectric heating

Answer: C

2. In a dc shunt motor the terminal voltage is halved while the torque is kept constant. The resulting approximate variation in speed ' ω ' and armature current I_a will be ____
- [A] Both ω and I_a are doubled.
 - [B] ω is decreased and I_a is doubled.
 - [C] ω is doubled while I_a is halved.
 - [D] ω is constant but I_a is halved.

Answer: B

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3. An alternator is delivering rated current at rated voltage and 0.8 power-factor lagging case. If it is required to deliver rated current at rated voltage and 0.8 power-factor leading, the required excitation will be

- [A] More
- [B] The same
- [C] More or less
- [D] Less

Answer: D

4. A ceiling fan uses

- [A] Split-phase motor.
- [B] Capacitor start and capacitor run motor.
- [C] Universal motor.
- [D] Capacitor start motor.

Answer: D

5. In a 3-phase synchronous motor:

- [A] The speed of stator MMF is always more than that of rotor MMF.
- [B] The speed of stator MMF is always less than that of rotor MMF.
- [C] The speed of stator MMF is synchronous speed while that of rotor MMF is zero.
- [D] Rotor and stator MMF are stationary with respect to each other.

Answer: D

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6. A synchro has _____
- [A] a 3-phase winding on rotor and a single-phase winding on stator.
 - [B] a 3-phase winding on stator and a commutator winding on rotor.
 - [C] a 3-phase winding on stator and a single-phase winding on rotor.
 - [D] a single-phase winding on stator and a commutator winding on rotor.

Answer: C

7. As the voltage of transmission increases, the volume of conductor
- [A] Increases.
 - [B] Does not change.
 - [C] Decreases.
 - [D] increases proportionately.

Answer: C

8. The size of the feeder is determined primarily by
- [A] The current it is required to carry
 - [B] The percent variation of voltage in the feeder
 - [C] The voltage across the feeder
 - [D] The distance of transmission

Answer: A

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9. The boundary of the protective zone is determined by the _____

- [A] Location of CT
- [B] Sensitivity of relay used
- [C] Location of PT
- [D] None of these

Answer: B

10. To achieve low PT error, the burden value should be _____

- [A] Low
- [B] High
- [C] Medium
- [D] None of the above

Answer: A

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