

QUIZ – ANSWER KEY

QUIZ NO: 74

TOPIC: ELECTRICAL ENGINEERING

DATE: 10/05/2022

1. The speed-torque characteristics of a DC series motor are approximately similar to those of the _____ motor.

- [A] universal
- [B] synchronous
- [C] DC shunt
- [D] two-phase

Answer: A

2. In order to reduce the harmful effects of harmonics on the A.C. side of a high voltage D.C. transmission system _____ are provided.

- [A] synchronous condensers
- [B] shunt capacitors
- [C] shunt filters
- [D] static compensators

Answer: C

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3. An a.c. tachometer is just a _____ with one phase excited from the carrier frequency.

- [A] two-phase A.C. servomotor
- [B] two-phase induction motor
- [C] A.C. operated universal motor
- [D] hybrid stepper motor

Answer: D

4. The maximum power for a given excitation in a synchronous motor is developed when the power angle is equal to _____

- [A] 0 Degree
- [B] 45 Degree
- [C] 60 Degree
- [D] 90 Degree

Answer: D

5. When two transformers are operating in parallel, they will share the load as under

- [A] proportional to their impedances
- [B] inversely proportional to their impedances
- [C] 50% - 50%
- [D] 25%-75%

Answer: B

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6. If the voltage is reduced to half, the torque developed by an induction motor will be reduced to _____
- [A] 1/4 of original torque
 - [B] 1/2 of original torque
 - [C] 1/8 of original torque
 - [D] 1/16 of original torque

Answer: A

7. If the phase angle of the voltage coil of a directional relay is 50 degree, the maximum torque angle of the relay is
- [A] 130 degree
 - [B] 100 degree
 - [C] 50 degree
 - [D] 25 degree

Answer: C

8. The direction of rotation of hysteresis motor is reversed by
- [A] Shift shaded pole with respect to main pole
 - [B] Reversing supply lead
 - [C] Either A or B
 - [D] Neither A nor B

Answer: A

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9. Low head plants generally use

- [A] Pelton Turbines
- [B] Francis Turbine
- [C] Pelton or Francis Turbine
- [D] Kaplan Turbines

Answer: D

10. Electric ovens using heating elements of _____ can produce temperature upto 3000°C

- [A] Nickel
- [B] Graphite
- [C] Chromium
- [D] Iron

Answer: C

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