

## QUIZ – ANSWER KEY

QUIZ NO: 135

TOPIC: ELECTRICAL ENGINEERING

DATE: 15/12/2022

1. The frame of an induction motor is made of \_\_\_\_\_ ?

- [A] Aluminum
- [B] Silicon steel
- [C] Cast iron
- [D] Stainless steel

**Answer: C**

2. In an induction motor, when the number of stator slots is equal to an integral number of rotor slots \_\_\_?

- [A] There may be a discontinuity in torque slip characteristics
- [B] A high starting torque will be available
- [C] The maximum torque will be high
- [D] The machine may fail to start

**Answer: D**

Join our social media



## QUIZ – ANSWER KEY

3. A 3-phase induction motor runs at almost 1000 rpm at no load and 950 rpm at full load when supplied with power from a 50 Hz, 3-phase supply. What is the corresponding speed of the rotor field with respect to the rotor?

- [A] 30 revolution per minute
- [B] 40 revolution per minute
- [C] 60 revolution per minute
- [D] 50 revolution per minute

**Answer: D**

4. Calculate the active power in a 487 H inductor ?

- [A] 2482 W
- [B] 1545 W
- [C] 4565 W
- [D] 0 W

**Answer: D**

5. Calculate the active power in a 788  $\omega$  resistor with 178 A current flowing through it ?

- [A] 24.96 MW
- [B] 24.44 MW
- [C] 24.12 MW
- [D] 26.18 MW

**Answer: A**

Join our social media



## QUIZ – ANSWER KEY

6. A three-phase slip ring induction motor is fed from the rotor side with the stator winding short-circuited. The frequency of the current flowing in the short-circuited stator is \_\_\_\_\_ ?

- [A] Slip frequency
- [B] Supply frequency
- [C] The frequency corresponding to rotor speed
- [D] Zero

**Answer: A**

7. An 8-pole, 3-phase, 50 Hz induction motor is operating at a speed of 720 rpm. The frequency of the rotor current of the motor in Hz is \_\_\_\_\_ ?

- [A] 2
- [B] 4
- [C] 3
- [D] 1

**Answer: A**

8. The stator core of a 3- phase induction motor is laminated in order to reduce the ?

- [A] Eddy current loss
- [B] Hysteresis loss
- [C] Both eddy current and hysteresis I loss
- [D] Weight of the stator

**Answer: A**

Join our social media



## QUIZ – ANSWER KEY

9. An induction motor works with ?

- [A] DC only
- [B] AC Only
- [C] Both AC & DC
- [D] None of these

**Answer: B**

10. The stator frame in an induction motor is used to ?

- [A] Hold the armature stampings in position
- [B] Ventilate the armature
- [C] Protect the whole machine
- [D] Provide return path for the flux

**Answer: A**

Join our social media

