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Polyphase Induction Motors MCQ Test

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Below is the **Polyphase Induction Motors MCQ** test that checks your basic knowledge of Polyphase Induction Motors. This **Polyphase Induction Motors MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Polyphase Induction Motors Quiz** Button.

Q1. In polyphase induction motors, the stator contains multiple distinct windings per motor pole driven by corresponding time-shifted sine waves.

- **A. True**
- B. False

Q2. The frame of an induction motor is usually made of ____.

- A. Silicon steel
- **B. Cast iron**
- C. Aluminum
- D. Bronze

Q3. The shaft of an induction motor is made of ____.

- A. Stainless steel
- **B. Carbon steel**
- C. Cast iron
- D. Aluminum

Q4. A double squirrel-cage induction motor has ____.

- A. two series winding in stator
- **B. two parallel windings in stator**

- **C. two parallel winding in Rotor**
- D. two rotors moving in opposite direction

Q5. Is the starting torque of a squirrel-cage induction motor is Low?

- **A. Yes**
- B. No

Q6. Which material is used to made Slip ring of an induction motor?

- **A. Phosphorus Bronze**
- B. Aluminum
- C. Copper
- D. Carbon

Q7. The shaft of an induction motor must be of ___.

- A. solid
- **B. hollow**
- C. flexible
- D. None of the above

Q8. Which is of the following data is required to draw the circle diagram for an induction motor?

- A. Block rotor test only
- B. No load test only
- C. Block rotor test and no-load test
- **D. Block rotor test, no-load test and stator resistance test**

Q9. Which of the following component is usually fabricated out of silicon steel?

- A. Bearings
- **B. Stator core**
- C. Shaft
- D. None of the above

Q10. Rotor rheostat control method of speed control is used for ___.

- A. Squirrel-cage induction motors only
- **B. Slip ring induction motors only**
- C. Both (A) and (B)
- D. None of the above

Q11. Which of the following is associated with the term cogging?

- A. Three-phase transformer
- B. Compound Generator
- **C. Induction motor**
- D. D.C series motor

Q12. Maximum running torque occurs when ___.

- **A. $S = R/X$ or $R = S \cdot X$**
- B. $S = RX$ or $R = S/X$
- C. $S = R^2/X$
- D. None of the above

Q13. In which of the following reason induction motor operation is stable?

- **A. Low Slip region**
- B. High slip region
- C. equally region
- D. None of the above

Q14. An induction motor is analogous to

- **A. Two windings transformer with secondary short circuited**
- B. Auto-transformer
- C. Two windings transformer with secondary open circuited
- D. Synchronous motor

Q15. Blocked rotor test in an induction motor is used to determine:

- A. Leakage impedance
- B. Copper loss
- C. Both A and B
- D. None of the above

Q16. A small air gap in 3 phase induction motor helps to reduce Magnetizing effect.

- A. True
- B. False

Q17. What is the shape of the torque/slip curve of induction motor?

- A. Parabola
- B. Hyperbola
- C. Rectangular parabola
- D. Straight line

Q18. Auto transformer method of starting has most acceptable method for the starting of the induction motor due to ____.

- A. maximum torque
- B. maximum reduction of inrush current
- C. variable tapping
- D. All of the mentioned

Q19. Which of the following leads to the phenomenon 'crawling'?

- A. squirrel cage induction motors exhibit a tendency to run at very slow speeds
- B. squirrel cage induction motors exhibit a tendency to run at very fast speeds
- C. squirrel cage induction motors exhibit a tendency to run at equal speeds
- D. None of the above

Q20. Which of the following is used as a lubricant for rolling bearings?

- A. Graphite
- **B. lithium-based grease**
- C. Silicon
- D. None of the above

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