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Single Phase Induction Motors MCQ Test

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Q1. Which of the following motor will have relatively higher power factor?

- A. Capacitor start motor
- B. Shaded pole motor
- **C. Capacitor run motor**
- D. Split phase motor

Q2. Which of the following motor is used in the mixer?

- A. Repulsion Motor
- **B. Universal Motor**
- C. Hysteresis Motor
- D. Reluctance Motor

Q3. The direction of rotation of an hysteresis motor is determined by _.

- A. retentivity of the rotor material
- **B. position of shaded Pole with respect to the main pole**
- C. interchanging the supply leads
- D. None of the above

Q4. In which principle a hysteresis motor works on?

- A. Eddy current loss

- **B. Hysteresis loss**
- C. Electromagnetic induction
- D. Magnetization of rotor

Q5. The speed control of universal motor used for sewing machines is by ____.

- A. friction
- **B. varying the resistance**
- C. tapping the field
- D. centrifugal mechanism

Q6. What is the characteristic universal motor?

- **A. can be operated either on D.C. or A.C. supply at approximately the same speed and output**
- B. can be marketed internationally
- C. runs at dangerously high speed on no-load
- D. None of the above

Q7. The capacitors used in single-phase capacitor motors have no __.

- A. Voltage rating
- B. Dielectric medium
- **C. Polarity marking**
- D. Definite value

Q8. Which of the following motors has highest starting torque?

- A. Repulsion motor
- B. Shaped pole motor
- **C. Capacitor-start motor**
- D. Split-phase motor

Q9. The rotor of a hysteresis motor is made of Chrome steel.

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

Q10. A repulsion motor is equipped with ____.

- A. Slip rings
- **B. Commutator**
- C. Both (A) and (B)
- D. None of the above

Q11. Which of the following motors is inherently self starting?

- A. Split motor
- **B. Shaded-pole motor**
- C. Reluctance motor
- D. None of the above

Q12. In a split phase motor, the running winding should have

- **A. Low resistance and high inductance**
- B. High resistance and low inductance
- C. Low resistance as well as low inductance
- D. High resistance as well as high inductance

Q13. The repulsion-start induction-run motor is used because of ____.

- A. Good Power factor
- B. High efficiency
- **C. High starting torque**
- D. Low cost

Q14. Which type of load is offered by cranes and hoists ?

- A. Reversing, light start
- **B. Reversing, heavy start**
- C. Gradually varying load
- D. Non-reversing, no-load start

Q15. If starting winding of a single-phase induction motor is left in the circuit, it will ____.

- A. run faster
- B. spark at light loads
- C. draw excessive current and overheat
- D. run slower

Q16. Hysteresis motor is used in mixies ?

- A. True
- B. False

Q17. Single phase induction motor usually operates on:

- A. Unity power factor
- B. 0.8 power factor leading
- C. 0.6 power factor lagging
- D. None of the above

Q18. In a capacitor start single-phase motor, when capacitor is replaced by a resistance ____.

- A. torque will increase
- B. the motor will consume less power
- C. motor will run in reverse direction
- D. motor will continue to run in same direction

Q19. In A.C. series motor compensating winding is employed to ____.

- A. increase the torque
- B. reduce the effect of armature reaction
- C. reduce sparking in brushes
- D. Both B and C

Q20. The speed of a universal motor is generally reduced by using ____.

- **A. Gear train**
- **B. V- belt**
- **C. Brakes**
- **D. Chains**

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