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DC motor MCQ Test

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Below is the **DC Motor MCQ** test that checks your basic knowledge of DC Motor. This **DC Motor 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 **DC Motor Quiz** Button.

Q1. If the back emf of a DC motor vanishes suddenly, What will happen ?

- A. The motor will stop
- B. The motor will run noisy
- **C. The armature may burn**
- D. The motor will continue to run

Q2. _____part will surely tell that given motor is DC motor and not an AC type.

- A. Winding
- **B. Commutator**
- C. Shaft
- D. Stator

Q3. Sparking is discouraged _____ in a DC motor.

- **A. discouraged**
- B. incouraged
- C. increase
- D. discrease

Q4. Torque developed by a DC motor depends upon -

- A. magnetic field
- **B. current flow through the conductors**

- C. active length of the conductor
- **D. Current, active length, no. of conductors, magnetic field al**

Q5. Which of the following is used for A three-point starter.

- A. Shunt, compound and series motors
- B. Shunt motor
- **C. Shunt as well as compound motors**
- D. Not for DC motors

Q6. If DC motor is used without starter, What will happen ?

- **A. Heavy sparking at brushes**
- B. Will not start at all
- C. Depends on load
- D. It'll start smoothly

Q7. _____ D.C. motor is preferred for elevators ?

- A. Series motor
- **B. Cumulative compound motor**
- C. Shunt motor
- D. Differential compound motor

Q8. In case-the conditions for maximum power for a D.C. motor are established, the efficiency of the motor will be

- A. 100%
- B. around 90%
- **C. less than 50%**
- D. anywhere between 75% and 90%

Q9. In a D.C. generator, the iron losses mainly take place in -

- A. commutator
- B. yoke
- C. armature conductors
- **D. armature rotor**

Q10. in which types of D.C. motor, dynamic braking is generally used ?

- A. Series motors
- B. Shunt motors
- C. Compound motors
- **D. All of the above**

Q11. The armature torque of a dc motor is a function of its -

- A. Field flux alone
- B. speed alone
- C. Speed alone
- **D. Both field flux and armature current**

Q12. The brush voltage drops in dc in / of the order of _____ .

- A. 10 V
- **B. 2 V**
- C. 20 V
- D. 40 V

Q13. D.C. series motors are used in _____ .

- A. where constant operating speed is needed
- B. where load is constant
- C. where load changes frequently
- **D. none of the above situations**

Q14. Hopkinson's test on D.C. machines is conducted at -

- A. no-load
- B. part load
- **C. full-load**
- D. overload

Q15. D.C. shunt motors are commonly used in _____ .

- A. Electric traction
- B. Cranes
- C. Elevators
- **D. Lathe machines**

Q16. Hopkinson's test on D.C. machines is conducted at

- A. part load
- B. no-load
- **C. full-load**
- D. overload

Q17. The special device which converts AC into DC and vice versa is known as

_____ .

- A. Armature
- **B. Split rings**
- C. Slip rings
- D. Field magnets

Q18. Which of the following is the shape of brushes ?

- A. Triangular
- B. Cylindrical
- **C. Rectangular**
- D. Square

Q19. _____ is also called motor rule'?

- A. Fleming's left hand rule
- **B. Fleming's right hand rule**
- C. both 1 & 2
- D. All of the above

Q20. The mechanical losses are about _____ % of full load losses.

- A. 30 to 40
- **B. 20 to 30**

- **C. 10 to 20**
- **D. 0 to 10**

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