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1. A shunt motor is fitted with a field regulator for speed control. For constant torque load, the speed will be minimum when the resistance of the regulator is

- a) 0Ω
- b) Infinite
- c) About 10Ω
- d) About 100Ω

Ans: (a)

2. Carbon brushes are used in electric motors to

- a) Prevent sparking during commutation
- b) Provide a path for flow of current
- c) Brush off carbon deposits on the commutator
- d) None Of these

Ans: (b)

3. The resistance of the field regulator of a dc shunt motor is of order of

- a) 0.1Ω
- b) 1Ω
- c) 10Ω
- d) 100Ω

Ans: (d)

4. Interpoles in dc motors are used for

- a) Increasing the speed of motor
- b) Reducing sparking at the commutation
- c) Decreasing the counter emf
- d) Converting armature current to dc

Ans: (b)

5. The dc compound motors are generally

- a) Cumulative compound
- b) Differential compound
- c) Level compound
- d) None of these

Ans: (a)

6. Small dc motors upto 5 HP usually have

- a) 2 poles
- b) 4 poles
- c) 6 poles
- d) 8 poles

Ans: (a)

7. The air gap between stator and armature of an electric motor is kept as small as possible

- a) To get a stronger magnetic field
- b) To improve the air circulation
- c) To reach a higher speed of rotation
- d) To make the rotation easier

Ans: (a)

8. The resistance of the starter of a 220 v, 5 HP dc shunt motor is of the order of

- a) 0.01Ω
- b) 0.1Ω
- c) 1Ω
- d) 10Ω

Ans: (d)

9. In a dc motor, unidirectional torque is produced with the help of

- a) Brushes
- b) Commutator
- c) End plates
- d) Both (a) and (b)

Ans: (d)

10. A dc motor can be easily identified by

- a) Yoke
- b) Size of conductor
- c) Commutator
- d) Winding

Ans: (c)