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1. The electric current in the motor generator

- a) Heat only
- b) Magnetic field only
- c) (a) and (b)
- d) Power only

Ans: (c)

2. Which of the following machine will be preferred to charge the batteries?

- a) Series generator
- b) Series motor
- c) Shunt generator
- d) Compound generator
- e) Shunt motor
- f) None of the above

Ans: (c)

3. If the speed of a d.c. shunt motor is increased, the back emf of the motor will

- a) Decrease
- b) Increase
- c) Remain same
- d) Increase then decrease

Ans: (b)

4. The large number of slots in induction motor

- a) Provides better overload capacity
- b) Reduces overload capacity
- c) Provides bigger size of motor
- d) Reduces the size of motor

Ans: (a)

5. The good power factor of an induction motor can be achieved if the average flux density in air gap is

- a) Large
- b) Small
- c) Infinity
- d) Absent

Ans: (b)

6. Why the d.c. motors are preferred for traction applications?

- a) The torque is proportional to armature current.
- b) The torque is proportional to square root of armature current.
- c) The speed is inversely proportional to the torque and the torque is proportional to square of armature current.
- d) Torque and speed are inversely proportional to armature current.

Ans: (c)

7. Which of the following generating machine will offer constant voltage on all loads?

- a) Separately excited generator
- b) Self-excited generator
- c) Level compound generator
- d) All the above machines

Ans: (c)

8. The d.c. generator will be preferred if it has

- a) 100% regulation
- b) Small
- c) 10% regulation
- d) Infinity

Ans: (b)

9. The number of bushings in a transformer can be reduced if

- a) The tapping are provided at the phase ends
- b) The tapping are provided at the high voltage side
- c) The tapping are provided in middle of the transformer
- d) The tapping are provided on the low voltage side

Ans: (a)

10. Which of the following transformers will use oil natural cooling with tubes?

- a) 100 kVA
- b) 800 kVA
- c) All the above transformers

Ans: (c)