

Electronics & Communication Engineering DC Machines Questions Pdf

1. The armature of a dc machine is made of silicon steel laminations to
 - a. Reduce hysteresis loss only
 - b. Reduce the eddy current loss only
 - c. Increase the permeability
 - d. Reduce both hysteresis and eddy current lossAns: D
2. The series field of a short shunt dc generator is excited by _____ current.
 - a. Armature
 - b. Shunt field
 - c. Load
 - d. ResistanceAn: C
3. Laminated yoke in dc motor can reduce
 - a. Speed regulation
 - b. Iron loss
 - c. Temperature rise
 - d. Sparking on loadAns: B
4. The air gap between the yoke and armature in a dc motor is kept small
 - a. To achieve a stronger magnetic field
 - b. To avoid overheating of the machine
 - c. To avoid locking of the armature
 - d. To avoid transverse motionAns: A
5. The principle of dynamically induced emf is utilised in
 - a. Transformer
 - b. Choke
 - c. Generator
 - d. ThermocoupleAns: B
6. The commutator of a dc motor serves the purpose of
 - a. Changing ac to dc
 - b. Converting dc into ac
 - c. Reducing friction
 - d. Avoiding arc at the brushesAns: B
7. Which of the following dc generators will have negligible terminal voltage on no load?
 - a. Shunt
 - b. Series

- c. Compound
- d. None of these

Ans: B

8. The torque speed characteristic of a dc shunt motor is
- a. A rectangular hyperbola
 - b. A drooping straight line
 - c. A parabola
 - d. None of these

Ans: B

9. If a speed of a dc motor increases with load torque, then it is a
- a. Series motor
 - b. Permanent magnet
 - c. Differentially compounded motor
 - d. Cumulatively compounded motor

Ans: C

10. Field divertor method of speed control of a dc series motor gives speeds above rated one due to reduction of
- a. Field current
 - b. Armature current
 - c. Line current
 - d. None of these

Ans: A

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