

Electrical Machines MCQ Questions and Answers Pdf

1. In a transformer _____ decreases with the increase in leakage flux.
 - a. primary induced emf
 - b. secondary induced emf
 - c. secondary terminal voltage
 - d. none of the above

Ans: C

2. A transformer transforms
 - a. Voltage
 - b. Current
 - c. Voltage and current
 - d. Frequency

Ans: C

3. The desirable properties of transformer core material are
 - a. Low permeability and low hysteresis loss
 - b. High permeability and high hysteresis loss
 - c. High permeability and low hysteresis loss
 - d. Low permeability and high hysteresis loss

Ans: C

4. Transformer will operate at maximum efficiency when
 - a. hysteresis loss = eddy current loss
 - b. eddy current loss = copper loss
 - c. copper loss = iron loss
 - d. hysteresis loss = copper loss

Ans: C

5. Which of the following dc motors has got maximum self relieving property?
 - a. Shunt
 - b. Series

- c. Cumulative compound
- d. Differential compound

Ans: B

6. In a dc motor, the shaft torque is less than armature torque. This is due to
- a. Eddy current loss
 - b. Hysteresis loss
 - c. Stray loss
 - d. All of the above

Ans: C

7. In a transformer supplying inductive load
- a. the secondary current results in equivalent primary current in phase opposition
 - b. the secondary terminal voltage is less than the secondary induced emf
 - c. the power factor on primary side will be lower than that of load
 - d. all of the above

Ans: D

8. Power transformers are designed to have maximum efficiency around full load.
- a. Nearly
 - b. 70% of
 - c. 50% of
 - d. 25% of

Ans: A

9. The transformer efficiency at relatively light loads is quite low. This is due to
- a. Small copper losses.
 - b. Small secondary output
 - c. High fixed loss in comparison to the output
 - d. Poor power factor

As: C

10. Open circuit test in a transformer is performed with
- a. Rated transformer voltage

- b. Rated transformer current
- c. Direct current
- d. High frequency supply

Ans: A

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