

Electrical Machines Quiz Questions and Answers Pdf

1. In the transformer circuit mode, the core loss is represented as a
 - a. Series resistance
 - b. Series inductance
 - c. Shunt resistance
 - d. Shunt inductance

Ans: C

2. When a transformer is operating on no load, the primary applied voltage is approximately balanced by
 - a. Primary induced emf
 - b. Secondary induced emf
 - c. Terminal voltage across the secondary
 - d. Voltage drop across the resistance and reactance

Ans: A

3. In a power transformer
 - a. primary winding is always wound with many turns of thin wire.
 - b. secondary winding is always wound with lesser number of turns of thin wire.
 - c. low voltage winding is always wound with lesser number of turns of thicker wire.
 - d. high voltage winding is always wound with larger number of turns of thicker wire

Ans: C

4. In an auto transformer, power is transferred through
 - a. conduction process only
 - b. induction process only
 - c. both conduction and induction processes
 - d. mutual coupling

Ans: C

5. During short circuit test of a transformer, core losses are negligible because
 - a. The current on the secondary side is rated current

- b. The voltage on the secondary side is zero
- c. The voltage applied on the primary side is low
- d. Full load current is not supplied to the transformer

As: C

6. The iron core in a transformer provides a _____ path to the main flux.

- a. Low reluctance
- b. High reluctance
- c. Low resistance
- d. High conductivity

Ans: A

7. In a transformer, electrical power is transferred from primary to secondary.

- a. Through air
- b. By magnetic flux
- c. Through insulating medium
- d. None of these

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Ans: B

8. Open circuit test in a transformer is present with

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

Ans: A

9. With the increase in speed of a dc motor

- a. Both back emf as well as line current increase
- b. Both back emf as well as line current fall
- c. Back emf increases but line current falls
- d. Back emf falls and line current increases

As: C

10. The core flux in transformer depends mainly on
- a. Supply voltage
 - b. Supply voltage and frequency
 - c. Supply voltage, frequency and load
 - d. Supply voltage and load but independent of frequency

Ans: B

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