

## QUIZ – ANSWER KEY

QUIZ NO: 153

TOPIC: ELECTRICAL ENGINEERING

DATE: 20/01/2023

1. In a given transformer for given applied voltage, which of the following losses remain constant irrespective of load changes?

- [A] Friction and windage losses
- [B] Copper losses
- [C] Hysteresis and eddy current losses
- [D] Cannot be determined

**Answer: C**

2. On which of the following degree of mechanical vibrations produced by the laminations of a transformer depends?

- [A] Tightness of clamping
- [B] Gauge of laminations
- [C] Size of laminations
- [D] Tightness of clamping, gauge and size of laminations

**Answer: D**

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3. Variations in a hysteresis loss in a transformer ( $B_{max}$  = maximum flux density) \_\_\_\_\_?

- [A]  $B_{max}$
- [B]  $B_{max}1.6$
- [C]  $B_{max}3.83$
- [D]  $B_{max}/2$

**Answer: B**

4. Leakage flux in the transformer depends on \_\_\_\_\_?

- [A] Load current
- [B] Load current and voltage
- [C] Load current, voltage and frequency
- [D] Load current, voltage, frequency and power factor

**Answer: A**

5. The full-load copper loss of a transformer is 1600 W. At half-load, the copper loss will be \_\_\_\_ ?

- [A] 6400 W
- [B] 1600 W
- [C] 800 W
- [D] 400 W

**Answer: D**

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6. Silicon steel used in laminations, because it reduces \_\_\_\_\_?

- [A] Hysteresis loss
- [B] Eddy current losses
- [C] Copper losses
- [D] Cannot be determined

**Answer: A**

7. If the supply frequency to the transformer is increased, the iron loss will \_\_\_\_\_?

- [A] Not change
- [B] Decrease
- [C] Increase
- [D] Cannot be determined

**Answer: C**

8. Which of the following can measure iron loss of a transformer?

- [A] Low power factor wattmeter
- [B] Unity power factor wattmeter
- [C] Frequency meter
- [D] Any type of wattmeter

**Answer: A**

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9. How reduction in core losses and increase in permeability can be obtained simultaneously in a transformer ?
- [A] Core built-up of laminations of cold rolled grain oriented steel
  - [B] Core built-up of laminations of hot rolled sheet
  - [C] Cannot be determined
  - [D] Frequency Meter

**Answer: A**

10. Losses which occur in rotating electric machines and do not occur in transformer are \_\_\_?
- [A] Friction and windage losses
  - [B] Magnetic losses
  - [C] Hysteresis and eddy current losses
  - [D] Copper losses

**Answer: A**

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