

QUIZ – ANSWER KEY

QUIZ NO: 66

TOPIC: ELECTRICAL ENGINEERING

DATE: 12/04/2022

1. 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

Answer: C

2. Which of the following acts as a protection against high voltage surges due to lightning and switching?

- [A] Breather
- [B] Conservator
- [C] Horn gaps
- [D] Thermal overload relays

Answer: C

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3. The efficiency of two identical transformers under load conditions can be determined by

- [A] back-to-back test
- [B] open circuit test
- [C] short circuit test
- [D] any of the above

Answer: A

4. For an ideal transformer the windings should have _____

- [A] maximum resistance on primary side and least resistance on secondary side
- [B] least resistance on primary and secondary side
- [C] equal resistance on primary and secondary side
- [D] no ohmic resistance on either side

Answer: D

5. Scott connections are used for

- [A] single phase to three phase transformation
- [B] three phase to single phase transformation
- [C] three phase to two phase transformation
- [D] any of the above

Answer: C

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6. The losses on a transformer are

I. Copper losses II. Eddy current losses III. Hysteresis losses

The constant power loss of a transformer loss is given by

[A] I only

[B] I and II only

[C] II and III only

[D] I, II and III

Answer: C

7. Which of the following will improve the mutual coupling between primary and secondary circuits?

[A] Transformer oil of high break down voltage

[B] High reluctance magnetic core

[C] Winding material of high resistivity

[D] Low reluctance magnetic core

Answer: D

8. The secondary of a current transformer under operating conditions is short-circuited to avoid

[A] break in primary winding

[B] insulation break-down

[C] core saturation and high voltage induction

[D] high voltage surge

Answer: C

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9. The inductive reactance of a transformer depends on

- [A] electromotive force
- [B] magnetomotive force
- [C] magnetic flux
- [D] leakage flux

Answer: D

10. Which of the following connection of transformer will give the highest secondary voltage?

- [A] Delta primary, delta secondary
- [B] Delta primary, star secondary
- [C] Star primary, star secondary
- [D] Star primary, delta secondary

Answer: B

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