

## QUIZ – ANSWER KEY

QUIZ NO: 80

TOPIC: ELECTRICAL ENGINEERING

DATE: 08/06/2022

1. Consider two transformers X and Y having exact ratings, but have flux densities of 1.5T and 2T respectively. The weight of the transformer A per KVA will be \_\_\_\_\_?

- [A] More than that of B
- [B] Lesser than that of B
- [C] Equal to that of B
- [D] Cannot be said from the given data

**Answer: A**

2. Consider two transformers X and Y having identical ratings, but have flux densities of 1.5T and 2T respectively. The weight of the transformer B per KVA will be \_\_\_\_\_

- [A] More than that of A
- [B] Lesser than that of A
- [C] Equal to that of A
- [D] Can not be said from the given data

**Answer: B**

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3. Core type transformers have, LV and HV windings are arranged such that \_\_\_\_\_

- [A] Half LV near the core and half HV outside LV on each limb
- [B] LV on one limb and HV on the other
- [C] Half LV outside the core and half HV inside LV on each limb
- [D] LV and HV windings are sandwiched

**Answer: A**

4. The shell type transformers have, LV and HV windings are arranged such that \_\_\_\_\_

- [A] Half LV near the core and half HV outside LV on each limb
- [B] LV on one limb and HV on the other
- [C] Half LV outside the core and half HV inside LV on each limb
- [D] LV and HV windings are sandwiched

**Answer: D**

5. A 1-phase transformer has a leakage impedance of  $1 + j4 \Omega$  for primary and  $3 + j11 \Omega$  for secondary windings. This transformer has \_\_\_\_\_

- [A] H.V primary
- [B] Medium voltage primary
- [C] L.V primary
- [D] L.V secondary

**Answer: C**

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6. Three transformers having identical dimensions but with core of iron, aluminium and wood are wound with same number of turns and have same supply. Then choose the order for eddy current losses?

[A] Wood > aluminium > iron

[B] Aluminium > iron > wood

[C] Iron > wood > aluminium

[D] Iron > aluminium > wood

**Answer: A**

7. While comparing potential transformer to an auto transformer, a potential transformer transfers power \_\_\_\_\_?

[A] Conductively

[B] Inductively

[C] Both conductively as well as inductively

[D] Electromagnetic induction

**Answer: A**

8. Three units of single phase transformers and one single three-phase transformer rating \_\_\_\_\_

[A] Will be same for one rating

[B] Can never be made same

[C] May be same

[D] None of the mentioned

**Answer: A**

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9. Open delta transformers can be obtained from \_\_\_\_\_?

- [A] Delta-delta
- [B] Star-delta
- [C] Delta-star
- [D] Any of the mentioned

**Answer: A**

10. A 400 V, 10 KVA transformer at 50 Hz, is operated at the frequency of 40 Hz, then the humming \_\_\_\_\_

- [A] Increases
- [B] Decreases
- [C] Remains same
- [D] Increases to very high

**Answer: A**

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