

# Quiz on Single Phase Transformer -1

Part 1 Personal Details

Part 2 Quiz

**\*Required**

1. Email address \*

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2. Name \*

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3. Branch \*

*Mark only one oval.*

TC

MMFT

4. Roll No \*

Enter correct 13 digit roll number.

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5. Mobile Number \*

Enter correct 10 digit Mobile no.

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Quiz

6. Single phase Transformer is \*

1 point

*Mark only one oval.*

- An electro-mechanical energy conversion device
- Used in Power grid for increasing grid current
- very low efficiency device and incur heavy losses in transmission lines
- used for stepping up and down ac Voltages

7. One of the drawbacks of using Potential Divider in place of transformer is \*

1 point

*Mark only one oval.*

- Potential divider cannot be used for AC voltages
- There will be huge losses in the resistor and low efficiency will result
- The voltage cannot be stepped down by this method
- The flux created in resistor will not be constant.

8. In auto-transformer \*

1 point

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- The two windings are not connected electrically so there is no danger of direct short circuit of primary and secondary
- we can step up as well as step down the supply voltage
- Both 1 and 2 are correct
- None of the above

9.  $E_{rms} = 4.44f\phi mN$  is the expression for \* 1 point

Mark only one oval.

- RMS value of EMF induced in HV Coil
- RMS value of EMF induced in LV Coil
- RMS value of EMF induced in HV or LV Coil
- RMS value of Voltage supplied to the primary Coil

10. In an ideal transformer we assume about Coil Resistances, Core material permeability, Leakage Flux and Core Losses to be \* 1 point

Mark only one oval.

- infinite, zero, zero, infinite
- Zero, Infinite, Zero, Infinite
- infinite, Zero, Infinite, Zero
- Zero, Infinite, Zero, Zero

11. In a transformer if the secondary side is left open it is said that Transformer is: \* 1 point

Mark only one oval.

- On Load
- fully loaded
- at No-Load
- at minimum Load

12. In an ideal single phase transformer if the secondary side Turns are  $N_2$  and Primary side turns are  $N_1$ , The primary current  $I_1$  and Secondary current  $I_2$  can be related as: \*

1 point

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- $(N_1/N_2)=(I_2/I_1)$
- $(N_1 \times N_2)=(I_2 \times I_1)$
- $(N_1/N_2)=(I_1/I_2)$
- $(N_1 \times N_2)=(I_1 \times I_2)$

13. The core of the transformer is made up of \*

1 point

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- thin sheets of CRGO steel
- Thin sheets of stainless Steel
- Thin sheets of Low resistance copper
- solid Cast iron

14. A 5kVA, 200 V/ 100 V, 50 Hz, single phase ideal two winding transformer is to used to supply full Load at 100 V. The full load secondary current and primary current will be \*

1 point

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- 25A, 50A
- 25A, 25A
- 50A, 25A
- None of the above

15. A 5kVA, 200 V/ 100 V, 50 Hz, single phase ideal two winding transformer is to used to supply a Load of  $25+j50$  Ohm at LV side when rated voltage is supplied at hv side . The secondary power factor will be \*

*Mark only one oval.*

0.826

0.811

0.862

0.830

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