

Quiz on Single Phase Transformers- 12/04/2020

Part 1 Personal Details

Part 2 Quiz (Short Answer Type)

***Required**

1. Email address *

2. Name *

3. Branch *

Mark only one oval.

TC

MMFT

4. Roll Number *

5. Mobile Number *

Quiz

Short Answer Type. Answer in 40-50 Words.

6. The two main losses of a single phase practical transformers are * 1 point
-
7. The two types of transformers on the basis of construction are: * 1 point
-
8. Write the name of material used in construction of Transformer core * 1 point
-
9. At which side of transformer the open circuit test is performed and why? Give reason in short. * 1 point
-
10. The open circuit test gives which parameter of single phase transformer? * 1 point
-
11. Which parameters are obtained from Short Circuit Test of Transformer? * 1 point
-
12. The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W. Find Magnetizing component I_m and core loss component, I_c . find magnetizing reactance X_m and core loss resistance R_c referred to LV side. * 2 points
-

13. The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W. Find Magnetizing component I_m and core loss component, I_c . find Equivalent leakage reactance X_{eq} and Equivalent Winding resistance R_c referred to hv side. *
- 2 points
-

14. The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W. Find Magnetizing component I_m and core loss component, I_c . find Equivalent leakage reactance X_{eq} and Equivalent Winding resistance R_c referred to LV side. *
- 2 points
-

15. The O.C and S.C test data are given below for a single phase, 5 kVA, 200V/400V, 50Hz transformer. O.C test from LV side : 200V 1.25A 150W, S.C test from HV side : 20V 12.5A 175W. Calculate the efficiency of the transformer at 75% loading with load power factor = 0.7 *
- 2 points
-

16. Under what condition does the transformer operate at maximum efficiency? *
- 1 point
-

This content is neither created nor endorsed by Google.

Google Forms