

Section 2 Review: Transformer Concepts

1. What are the main enemies of the transformer?
2. How are transformers cooled?
3. What is the name of a harmful chemical sometimes found in older transformers?
4. What device protects the transformer from excessive currents?
5. What device protects transformers from excessive voltage?
6. What are the differences between a conventional transformer, and a CSP transformer?
7. What does CSP stand for?
8. Should CSP transformers be used in transformer banks?
9. What are the four conditions under which ferroresonance can occur?
10. Which type of circuit is more susceptible to ferroresonance, overhead, or underground, and why?

11. To decrease the possibility of ferroresonance, field personnel should do what?
12. Why do transformers hum?
13. What does the length of a vector represent?
14. What does the direction of the vector represent?
15. In a Y configuration, phase to ground voltage is multiplied by what number to calculate phase to phase voltage?
16. What is angular displacement?
17. What are the four possibilities of angular displacement on distribution transformer banks?
18. Y-Y, and delta-delta banks can be what angular displacements?
19. Y-delta, and delta-Y banks can be what angular displacements?
20. What three conditions must single phase transformers meet to be paralleled?
21. What additional condition must be met for three phase transformer banks to be paralleled?