

NAME

DATE

ELT 141 Section 2 Test

1. What are the main enemies of the transformer?
 - a. High current
 - b. High voltage
 - c. Heat
 - d. All of the above

2. How much current can a transformer deliver?
 - a. The amount indicated on the name plate
 - b. More than the amount indicated on the name plate
 - c. Less than the amount indicated on the nameplate
 - d. An infinite amount

3. What service does transformer oil perform?
 - a. Heating
 - b. Lubrication
 - c. Cooling
 - d. Hydraulic operation

4. What device protects the transformer from excessive currents?
 - a. Surge arrestor
 - b. Capacitor
 - c. Fused cutout
 - d. Secondary winding

5. What device protects the transformer from excessive voltage?
 - a. Surge arrestor
 - b. Capacitor
 - c. Fused cutout
 - d. Secondary winding

6. What built in protection does a CSP transformer have that a conventional transformer does not?
 - a. A surge arrestor
 - b. A high voltage fuse
 - c. A low voltage circuit breaker
 - d. All of the above

7. What type of transformer can be used in three phase transformer banks?
 - a. CSP
 - b. Conventional
 - c. Single phase underground
 - d. Current transformer

8. Which type of circuit is more susceptible to ferroresonance?
 - a. Underground
 - b. Overhead

9. What condition would more likely cause ferroresonance?
 - a. An overloaded circuit
 - b. A lightly loaded circuit
 - c. A circuit loaded near its maximum
 - d. A deenergized circuit

10. What does the length of a vector represent?
 - a. It's relationship to other vectors in a diagram
 - b. An electrical quantity
 - c. The angular displacement
 - d. Polarity

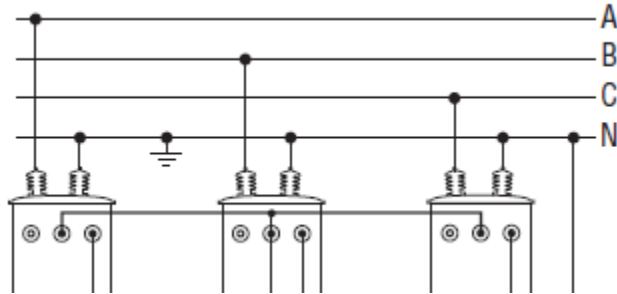
11. What does the angle of a vector represent?
 - a. It's relationship to the other vectors in a diagram
 - b. An electrical quantity
 - c. The angular displacement
 - d. Polarity

12. Phase to phase voltage in Y circuits is the single phase voltage multiplied by what factor?
- a. 1.73
 - b. 2
 - c. 1.25
 - d. 3.14
13. What refers to the phase angle, expressed in degrees, between two voltage vectors?
- a. Polarity
 - b. Vector
 - c. Phasor
 - d. Angular displacement
14. What degree of angular displacement is possible on a Y delta bank?
- a. 180
 - b. 210
 - c. 30
 - d. Both b and c
15. What degree of angular displacement is possible on a Y-Y bank?
- a. 180
 - b. 210
 - c. 30
 - d. Both b and c
16. It is possible to parallel two single phase transformers of differing polarities.
- a. True
 - b. False
17. What must be identical in order to parallel two single phase transformers?
- a. Voltage ratings
 - b. KVA ratings
 - c. Tap settings
 - d. Both a and c
18. A Y-Y bank can be paralleled with Y delta bank.
- a. True
 - b. False

19. If phase to ground voltage is 277V, and phase to phase voltage is 480V on a transformer bank's secondary, what configuration is the secondary of the transformer bank?

- a. Y
- b. Delta
- c. Additive
- d. Subtractive

20. What configuration is the following transformer bank primary wired in?



- a. Y
- b. Delta