

NAME

DATE

ELT 141 Section 1 Test

1. Which of the following is not a typical secondary transformer voltage?
 - a. 1000V
 - b. 120V
 - c. 277V
 - d. 480V

2. Which of the following is not a typical primary voltage for a distribution transformer?
 - a. 115KV
 - b. 34.4KV
 - c. 2400V
 - d. 7200V

3. Where are distribution transformers typically installed?
 - a. At grade level on pads
 - b. On poles
 - c. Totally underground in vaults
 - d. All of the above

4. The number of turns on the primary coil divided by the number of turns on the secondary coil is what?
 - a. Secondary voltage
 - b. Primary voltage
 - c. Turns ratio
 - d. True power

5. What function does a bushing perform?
 - a. They bring the high and low voltage leads from the coils out through the tank to external connections.
 - b. They are used to rig the transformer for lifting
 - c. They contain all technical information about the transformer
 - d. None of the above

6. Permeability is a materials what?
 - a. Ability to conduct electricity
 - b. Ability to be magnetized
 - c. Resistance to current flow
 - d. Ability to dissipate heat

7. A transformers core is typically made of which substance?
 - a. Copper
 - b. Aluminum
 - c. Porcelain
 - d. Iron

8. A transformer works with DC current.
 - a. True
 - b. False

9. What unit are transformers usually rated in?
 - a. KW
 - b. KVA
 - c. KV
 - d. Amperes

10. Rated KVA is the rated capacity for what?
 - a. The primary
 - b. The secondary
 - c. Neither
 - d. Both

11. Transformer taps are used to adjust what?
 - a. Voltages
 - b. Currents
 - c. Resistances
 - d. Both b and c

12. What letter designates a primary, or high side terminal on a distribution transformer?
- a. O
 - b. X
 - c. H
 - d. Z
13. Which letter designate a secondary, or low side terminal?
- a. O
 - b. X
 - c. H
 - d. Z
14. What does H_0 or X_0 designate?
- a. Primary terminal
 - b. Secondary terminal
 - c. Neutral terminal
 - d. None of the above
15. On a single phase transformer of additive polarity, the secondary terminals are numbered how?
- a. From left to right
 - b. From right to left
 - c. From top to bottom
 - d. From bottom to top
16. Single phase transformers below 200 KVA with primary voltage below 8600 volts usually have additive polarity.
- a. True
 - b. False
17. Polarity is listed on the transformer nameplate.
- a. True
 - b. False
18. Three transformer windings can be configured how to deliver three phase services?
- a. Delta configuration
 - b. Y configuration
 - c. V configuration
 - d. Both a and c

19. Phase to ground voltage is 277V on a Y system. What is phase to phase voltage?

- a. 120
- b. 240
- c. 277
- d. 480

20. What is typically maximum primary distribution voltage?

- a. 34.4KV
- b. 7200V
- c. 25KV
- d. 14,400V