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Continuing Education Course #469
Electrical Power Distribution
Part 2 - Drawings, Symbols & Studies

1. Which industry agency or association publishes the National Electric Code?
 - a. IEEE
 - b. ANSI
 - c. IEC
 - d. NEMA
 - e. NFPA
2. What is the significance of a single-line diagram?
 - a. This type of drawing uses a single, continuous line to make the drawing
 - b. This type of drawing uses one line between components even though there may be more than one conductor used to connect the equipment
 - c. This is a simple drawing with little functional information
 - d. This is an elementary drawing used in the beginning stages of project development
3. On a single-line diagram, what is the ANSI device number that represents a medium voltage AC circuit breaker?
 - a. 25
 - b. 52
 - c. 1000
 - d. 1
4. On a single-line diagram, what type of inputs will be shown for power meters and protective relays?
 - a. Circuit breakers
 - b. Voltage transformers
 - c. Current transformers
 - d. A and B
 - e. B and C
5. What type of drawings would be used to identify on which floor of a 4 story-building a piece of equipment is located?
 - a. Single-line diagram
 - b. Three-line drawing
 - c. Riser diagram
 - d. Wiring diagram
6. What is the main function of schedules on an electrical drawing?
 - a. Provide project shipment timing
 - b. Provide tabular information
 - c. Provide timing of relay protection
 - d. None of the above

7. What is the main purpose of a short circuit study?
- a. Determine the highest amount of current that will flow through the power distribution system under a short circuit fault condition.
 - b. Determine the shortest length of wire that can be used to complete a circuit
 - c. Determine how fast a circuit breaker will trip under a short circuit condition
 - d. Determine the shortest time to complete a project
8. What information is required to complete a short circuit study?
- a. The utility available short circuit current
 - b. Service entrance transformer size, voltage rating, and impedance
 - c. Large motor loads
 - d. Cable sizes and lengths between power distribution equipment
 - e. Single-line diagram of the system
 - f. All of the above
9. Which of the following is not a purpose for an electrical coordination study?
- a. To confirm that the protection settings will protect equipment from excessive damage
 - b. To determine the clearing time under fault conditions
 - c. Ensure that electrical conduits, water pipes, and steam pipes have proper clearance and coordination
 - d. To provide selectivity between upstream and downstream protective devices
10. What types of fault conditions are analyzed in an electrical coordination study?
- a. Short circuit
 - b. Overload
 - c. Ground Fault
 - d. All of the above
11. Which type of electrical power study can be used to recommend the personal protective equipment that should be worn around electrical equipment?
- a. Short circuit study
 - b. Coordination study
 - c. Arc Flash study
 - d. Load flow study
12. What code or standard should be used to recommend personal protective equipment to be worn around electrical equipment?
- a. NFPA 70E
 - b. IEEE 519
 - c. ANSI 52
 - d. NEMA MG1
13. Which type of electrical power study will identify whether there are potential unacceptable voltage drops in the power system?
- a. Short circuit study
 - b. Coordination study
 - c. Arc Flash study
 - d. Load flow study
14. What is the ANSI device number for an AC Time Overcurrent Relay?
- a. 25
 - b. 32

- c. 51
- d. 52

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