

Instructions:

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2. Circle the correct answers on the answer sheet.
3. Page down to the last page for the verification forms and mailing instructions.

Article 90 Introduction

1. In order for equipment and materials to receive approval _____.
 - (a) the equipment and material must be listed by UL
 - (b) the authority having jurisdiction must decide on approval
 - (c) the authority having jurisdiction can never approve non-listed items
 - (d) the local electrical distributor must decide on approval

Chapter 1 General

Article 110 Requirements for Electrical Installations

2. Unused cable or raceway opening in electrical equipment shall be _____.
 - (a) filled with cable clamps or connectors only
 - (b) taped over with electrical tape
 - (c) repaired by welding or brazing in a metal slug
 - (d) effectively closed by fittings that provide protection equivalent to the wall of the equipment
3. For mounting electrical equipment on a masonry wall, it is acceptable to drill a hole in the masonry and drive a wooden plug into the hole, then use sheet rock screws drilled into the wooden plug.
 - (a) True (b) False
4. The termination provisions of equipment for circuits rated 100 amperes or less or marked for 14 AWG through 1 AWG conductors shall be used only for conductors rated _____ or conductors with higher temperature ratings provided their ampacity is determined based on the _____ ampacity of the conductor size used unless the equipment is listed or identified for use with higher temperature rated conductors.
 - (a) 60 degrees C (b) 75 degrees C (c) 30 degrees C (d) 90 degrees C
5. The termination provisions of equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG, shall be used only for conductors rated _____ or conductors with higher temperature ratings provided their ampacity is determined based on the _____ ampacity of the conductor size used unless the equipment is listed or identified for use with higher temperature rated conductors.
 - (a) 60 degrees C (b) 75 degrees C (c) 30 degrees C (d) 90 degrees C
6. The identification of the high leg (wild leg) of a 3 phase 4 wire delta connected system shall be done using _____.
 - (a) red in color or colored red by an effective means
 - (b) orange in color or colored orange by an effective means
 - (c) permanent lettering on the conductor installed by the manufacturer of the wire
 - (d) this is no longer required
7. Identification of the high leg of a 3 phase 4 wire delta connected system shall be required _____.
 - (a) at the service disconnect only
 - (b) at each point on the system where a connection is made if the equipment grounding conductor is also present
 - (c) at each point on the system where a connection is made if the grounding electrode conductor is also present
 - (d) at each point on the system where a connection is made if the grounded conductor is also present
8. Switchboards, panelboards industrial control panels, and motor control centers that are in other than dwelling occupancies and are likely to require examination, adjustment, servicing, or maintenance while _____ shall be field marked to warn qualified persons of potential electric arc flash hazards.
 - (a) being installed (b) energized
 - (c) de-energized (d) in fault condition

9. The manufacturer's name, trademark, or other descriptive marking shall be placed on all electric equipment. Where required by the Code, markings such as voltage, current, wattage, or other ratings shall be provided with sufficient durability to withstand _____.

- (a) the voltages encountered
- (b) painting and other finishes applied
- (c) the environment involved.
- (d) Lack of planning by the installer

10. All installed disconnecting means shall be legibly marked to indicate their purpose unless they are located and arranged so _____.

- (a) that they can be locked out and tagged
- (b) they are not readily accessible
- (c) their purpose is evident
- (d) that they operate at less than 300 volts to ground

11. For equipment rated 1,200A or more and having a width of over 6 ft, at least one entrance, measuring not less than 24 in. wide and 6 1/2 ft high, shall be provided at each end of the working space. Where the entrance to the working space has a door, the door _____.

- (a) shall open either in or out with simple pressure and shall not have any lock
- (b) shall open out and be equipped with panic hardware or other devices so the door can open under simple pressure without the use of hands.
- (c) shall be removed
- (d) shall be equipped with an electronic opener

12. Illumination shall be provided for all working spaces about service equipment, switchboards, panelboards, and motor control centers _____.

- (a) over 600 volts
- (b) located indoors
- (c) rated 1200 amps or more
- (d) using automatic means of control

Chapter 2 Wiring and Protection

Article 200 Use and Identification of Grounded Conductors

13. The means of identification of _____ to which a grounded conductor is to be connected shall be substantially white in color.

- (a) wirenuts
- (b) circuit breakers
- (c) terminals
- (d) ground rods

14. The screw shell of a luminaire or lampholder shall be connected to the _____

- (a) grounded (neutral) conductor
- (b) ungrounded conductor
- (c) equipment grounding conductor
- (d) forming shell terminal

Article 210 Branch Circuits

15. The rating of a branch circuit is determined by the rating of the _____.

- (a) ampacity of the largest device connected to the circuit
- (b) average of the ampacity of all devices
- (c) branch-circuit overcurrent protection device
- (d) ampacity of the branch circuit conductors according to table 310.16

16. Two or more _____, 1Ø, 120V small-appliance branch circuits shall be provided to supply power for 15A or 20A receptacle outlets in the dwelling unit kitchen, dining room, breakfast room, pantry, or similar dining areas.

- (a) 15 amp
- (b) 20 amp
- (c) 30 amp
- (d) either 15 or 20 amp

17. Receptacle outlets installed for a specific appliance, such as a clothes washer, dryer, range, or refrigerator, shall be within _____ of the intended location of the appliance.

- (a) sight (b) 6 feet
- (c) 3 feet (d) readily accessible, no maximum distance

18. In a dwelling unit, the minimum required receptacle outlets shall be in addition to receptacle outlets that are _____.

- (a) part of a luminaire or appliance (b) located within cabinets or cupboards
- (c) more than 51/2 ft above the floor (d) all of these

19. A receptacle connected to the small-appliance branch circuit can be used to supply an electric clock.

- (a) True (b) False

20. A receptacle connected to the small-appliance circuit can supply gas-fired ranges, ovens, or counter-mounted cooking units.

- (a) True
- (b) False

21. Receptacles installed in a kitchen to serve countertop surfaces shall be supplied by not fewer than _____ small-appliance branch circuits.

- (a) one
- (b) two
- (c) three
- (d) no minimum

22. Lighting outlets can be controlled by occupancy sensors equipped with a _____ that will allow the sensor to function as a wall switch.

- (a) manual override
- (b) photo cell
- (c) GFCI device
- (d) Selenium Controlled Rectifier (SCR)

Article 215 Feeders

23. On a _____ system where the midpoint of one phase winding is grounded, the conductor having the higher voltage-to-ground shall be identified by an outer finish that is orange in color, or by other effective means. Such identification shall be placed at each point where a connection is made if the grounded conductor is also present.

- (a) single phase 3 wire
- (b) 3 phase, 4-wire delta-connected
- (c) 3 phase 4 wire wye-connected
- (d) 3 phase 3 wire delta-connected

General Electrical Questions (Testelect 24)-Quiz Answer Sheet

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- 2 a b c d
- 3 a b c d
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