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4. Begin viewing the web pages. Refer to your printed test to find the correct answers. The questions track the web pages.
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Quiz 1

1. The NEC covers the installation of electrical equipment supplying _____ to watercraft in marinas.
 - leakage current
 - shore power
 - GFCI devices
 - batteries
 - emergency power
2. A/An _____ fitting establishes a connection between the conductors of the attached utilization equipment and the branch-circuit conductors connected to the locking support and mounting receptacle.
 - outlet
 - conduit
 - grounded
 - attachment
 - equipment
3. A _____ is a room in a building for living, sleeping, eating, or cooking, excluding bathrooms, toilet rooms, closets, hallways, storage or utility spaces, and similar areas.
 - dormitory unit
 - studio apartment
 - habitable room
 - multipurpose room
 - none of the answers provided
4. The current delivered at a point on the system during a short-circuit condition is called the _____.
 - fault current
 - trip current
 - capacitor surge
 - conductor deliverable
 - available current

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5. Electromechanical systems, equipment, apparatus, or components that are restored to operating conditions are known as _____.
- listed
 - vintage
 - abandoned
 - usable
 - reconditioned

Quiz 2

1. Receptacles in areas with a _____ and permanent provisions for either food preparation or cooking are required to have GFCI protection for personnel.
- toilet
 - shower
 - sleeping area
 - closet
 - sink
2. Equipment that provides ground-fault circuit-interrupter protection for personnel _____ reconditioned.
- shall not be
 - is permitted to be
 - must be
 - should be
 - none of the answers provided
3. Required receptacle outlets located above a countertop must be not more than _____ inches above the countertop.
- 12
 - 14
 - 16
 - 18
 - none of the answers provided
4. Feeders shall be permitted to be protected by a ground-fault circuit-interrupter installed _____ in lieu of the provisions for such interrupters as specified in 210.8 and 590.6(A).
- within 6 feet of the branch circuit conductor(s)
 - in a readily accessible location
 - within 10 feet of the service panel
 - in an inaccessible location
 - within arm's reach of the service meter

5. Branch circuit load calculations must be based on floor area calculated from _____.
- the interior dimensions of the room, not including closets
 - the outside building dimensions, including garages
 - the outside dimensions of the building
 - both finished and unfinished spaces in the building
 - none of the answers provided

Quiz 3

1. Which of the following is NOT a permissible means of restricting access to an adjustable-trip circuit breaker?
- Located behind removable and sealable covers over the adjusting means.
 - Located behind bolted equipment enclosure doors.
 - Located behind locked doors accessible only to qualified personnel.
 - Password protected, with password accessible only to qualified personnel.
 - none of the answers provided
2. An arc energy reduction protection system shall be performance tested when first installed on site by a qualified person(s) in accordance with _____.
- standard testing practices
 - the manufacturer's instructions
 - guidelines from the authority having jurisdiction
 - local energy codes
 - none of the answers provided
3. Separately derived systems consisting of multiple sources of the same type that are _____ shall be permitted to have the system bonding jumper installed at the paralleling switchboard.
- connected in series
 - not connected
 - connected in parallel
 - listed
 - blue in color
4. A building supplied by a feeder shall have a grounding electrode system and _____ installed in accordance with Part III of Article 250.
- non-metallic cabinet
 - warning label
 - raceway
 - grounding electrode conductor
 - none of the answers provided

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5. The rebar extension of a rebar-type concrete-encased electrode shall not be exposed to contact with the earth without _____.
- corrosion protection
 - a rubberized coating
 - prior approval from the authority having jurisdiction
 - first determining whether it is a wet location
 - trenching it at least 18 inches deep

Quiz 4

1. Where raceways contain 4 AWG or larger insulated circuit conductors that enter a cabinet, which of the following is permitted for conductor protection?
- an identified fitting providing a smoothly rounded insulating surface
 - a listed metal fitting that has smoothly rounded edges
 - separation from the fitting or raceway using an identified insulating material that is securely fastened in place
 - threaded hubs or bosses that are an integral part of a cabinet, box, enclosure, or raceway providing a smoothly rounded or flared entry for conductors
 - all of the answers provided
2. Where an exit enclosure is required to be separated from the building, only electrical wiring methods serving equipment permitted by the authority having jurisdiction shall be installed _____.
- within 10 feet of the exit enclosure
 - near the egress of the exit enclosure
 - in the building adjacent to the exit enclosure
 - within the exit enclosure
 - none of the answers provided
3. The minimum size of conductors for voltage ratings up to and including 2000 volts shall be 14 AWG copper or 12 AWG aluminum or _____, except as permitted elsewhere in this code.
- copper-clad aluminum
 - aluminum-clad copper
 - copper alloy
 - brass
 - carbon fiber
4. Which of the following is NOT required to have durable markings on its surface?
- underground feeder and branch-circuit cable.
 - tray cable
 - irrigation cable
 - power-limited tray cable
 - none of the answers provided

5. Table 310.12 may be applied for all single-phase dwelling services and feeders rated between 100 and 400 amperes.
- Yes, this is always true.
 - Yes, provided the service is actually rated for less than 100 amperes.
 - No, this table can never be used and should be deleted from the NEC.
 - Yes, provided that no adjustment or correction factors are required.
 - No, this table cannot be used for dwellings.

Quiz 5

1. Conductors rated at a temperature higher than the listed temperature rating of LFMC conduit shall be permitted to be installed in LFMC.
- Yes, this is always true.
 - No, this is never permitted.
 - Yes, provided the conductors are not operated at a temperature higher than the listed temperature rating of the LFMC.
 - No, not unless the installation has been approved by a professional engineer.
 - Yes, provided the conductors are operated at a temperature no more than 25% higher than the temperature rating of the LFMC.
2. LFNC shall be permitted to be used in exposed or concealed locations where contained conductors are required to be protected from vapors, _____, liquids, or solids.
- children
 - power surges
 - short circuits
 - rodents
 - machine oils
3. A multi-outlet assembly _____ installed where cord and plug connected.
- shall not be
 - shall be permitted to be
 - shall be required to be
 - is most often
 - is recommended to be
4. Expansion splice plates for cable trays shall be provided where necessary to compensate for _____.
- the risk of vehicular damage
 - changes in elevation
 - the future addition of cables and conductors
 - thermal expansion and contraction
 - none of the answers provided

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5. A box shall not be required where conductors or cables transition to a raceway wiring method from the cable tray.
- True
 - False

Quiz 6

1. Switchboards, switchgear, and panelboards shall have a short-circuit current rating _____ the available fault current.
- less than
 - less than or equal to
 - not equal to
 - not less than
 - not greater than
2. If a switchboard has been damaged by fire, products of combustion, or water, it shall be specifically evaluated by its manufacturer or a qualified testing laboratory _____.
- prior to being reconditioned
 - within 30 days of being returned to service
 - to determine whether or not it can be reconditioned
 - to label it as "damaged"
 - prior to being returned to service
3. Panelboards shall not be permitted to be reconditioned.
- Yes, this is always true.
 - No, this is never true.
 - No, unless the panelboard cannot be replaced.
 - Yes, unless the reconditioned board is labeled as such.
 - Yes, unless the available fault current is greater than 10,000 amperes.
4. Reconditioned switchgear shall be listed or field labeled _____, and previously applied listing marks, if any, within the reconditioned portions shall be removed.
- by the authority having jurisdiction
 - in letters at least 1 inch high
 - as reconditioned
 - as hazardous
 - none of the answers provided
5. Load terminals for switchboard field wiring shall be located so that it is not necessary to reach across _____ in order to make connections.
- any sharp edges
 - uninsulated ungrounded bus
 - a distance greater than arm's length
 - more than half the switchboard
 - any metallic surfaces

Quiz 7

1. The emergency shutoff device at a fuel dispensing facility shall disconnect simultaneously from the source of supply, all conductors of the circuits, including _____, if any.
- the equipment grounding conductor
 - all cables with nonmetallic sheaths
 - multiconductor cables
 - the grounded conductor
 - none of the answers provided
2. Illumination over switchboards and switchgear shall be provided by automatic means only.
- True
 - False
3. Flexible cables across public walkways shall be permitted to be covered with nonconductive matting _____, or protected with another approved cable protection method.
- secured to the walkway surface
 - that is brightly colored
 - and a sign warning of the tripping hazard
 - that feels pleasant underfoot
 - that is at least 36 inches wide
4. A _____ is a factory-assembled structure or structures transportable in one or more sections that are built on a permanent chassis, and is designed to be used as other than a dwelling unit without a permanent foundation.
- construction site trailer
 - mobile occupancy unit
 - relocatable structure
 - prefabricated office
 - none of the answers provided
5. A relocatable structure feeder shall include _____ insulated color-coded conductors.
- at least two
 - no more than four
 - three
 - two to four
 - none of the answers provided

Quiz 8

1. A/An _____ is a pool for ceremonial or ritual immersion of users, which is designed and intended to have its contents drained or discharged.
- immersion pool
 - recreational fountain
 - swimming basin
 - floating pool
 - splash pad

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2. A _____ is a fountain with a pool depth of 1 inch or less, intended for recreational use by pedestrians.
 - bathing fountain
 - non-immersion pool
 - wading pool
 - recreational water installation
 - none of the answers provided
3. The authority having jurisdiction shall be permitted to require periodic inspection and testing of swimming pools, fountains and similar installations.
 - True
 - False
4. Where a pool pump motor described in 680.21(C) is replaced for maintenance or repair, the replacement pump motor shall be provided with _____.
 - a secondary source of power
 - a connection to solar panels
 - an emergency shutoff switch within arm's reach of the pool
 - ground-fault circuit-interrupter protection
 - none of the answers provided
5. Where copper grid is used for the perimeter bonding of a swimming pool installation, the copper grid must follow the contour of the perimeter surface extending _____ horizontally beyond the inside walls of the pool.
 - 6 inches
 - 3 feet
 - 18 inches
 - 2 feet
 - none of the answers provided

Quiz 9

1. Ground-fault protection equipment shall provide indication of ground faults _____.
 - within 24 hours
 - at a readily accessible location
 - via a lighted alert
 - with an audible alarm
 - no more than 10 feet from the equipment
2. Fire pump controllers and transfer switches shall not be permitted to be reconditioned.
 - True
 - False

3. Meter-mounted transfer switches _____ for emergency system use.
 - shall not be permitted
 - shall be required
 - are not recommended
 - may be permitted
 - are frequently installed
4. Emergency system sources connected to a dc microgrid system shall be permitted _____.
 - in all cases
 - only in approved locations
 - where the system is capable of being isolated from all non-emergency sources
 - where the system is never isolated from non-emergency sources
 - none of the answers provided
5. Power source output circuits are defined as the conductors between _____ and service or distribution equipment.
 - residential meters
 - batteries
 - solar arrays
 - power production equipment
 - none of the answers provided

Quiz 10

1. Stand-alone power sources must have a permanent plaque or directory installed at each service equipment location _____.
 - or at an approved readily visible location
 - or have a posted deviation approval
 - and at each entrance to the building
 - stating "CAUTION: MULTIPLE SOURCES OF POWER"
 - within arm's reach of the emergency shutoff
2. Stand-alone and microgrid systems shall be permitted to supply three-phase, 3-wire or 4-wire systems.
 - True
 - False
3. A cable bundle is defined as a group of cables that are tied together or are in contact with one another in a closely packed configuration for at least _____.
 - 36 inches
 - 5 feet
 - 18 inches
 - 4 feet
 - none of the answers provided

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4. Class 1 circuits shall be permitted to be installed together with the conductors of electric light, power, non-power-limited fire alarms, and medium power network-powered broadband communications circuits where _____.
 - there is no other way to install them
 - separated by a barrier
 - approved by the authority having jurisdiction
 - protected from access by unqualified persons
 - none of the answers provided

5. A cable that is not terminated at equipment, or that is not identified for future use with a tag, is known as a _____.
 - infinite cable
 - insulated conductor
 - abandoned cable
 - orphaned line
 - unbundled multicable conductor