Title: **Article 100, 110, 200** Test: 2

Course: Electrical Applications Unit: Code CLO: 1

Name ANSWER KEY Station 35pts Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives**

1. Student shall identify the correct answers as they relate to the National Electrical Code.

**Assessment**

Students shall demonstrate a comprehension of the objectives listed above by scoring a minimum of 75% on this Test. Grading shall be based on the answer key.

**Instructions**

Select the best answer to each multiple-choice question below.

**Article 100**

1. An accommodation containing only the following: living, sleeping, sanitary and storage facilities. (p31)
2. building
3. vestibule
4. dwelling unit(s)
5. guest room
6. Electrical wiring and equipment that is capable of being reached quickly for inspection, operation, or renewal, without requiring portable ladders or having to remove or climb over obstacles is known as \_\_\_\_\_\_\_\_\_\_\_.(p27)
7. accessible, (wiring methods)
8. accessible (as applied to equipment)
9. accessible, (readily)
10. a, b & c (if the equipment is marked)
11. Locations that are under roofed, open porches and/or interior areas subject to moderate degrees of moisture (like some basements) are \_\_\_\_\_\_ locations.(p32)
12. wet
13. damp
14. moist
15. dry
16. Equipment or material is \_\_\_\_\_\_\_ if it has an attached symbol or some other identifying mark from an organization that is acceptable to the AHJ.(p31)
17. approved
18. identified
19. labeled
20. listed
21. Equipment or material is \_\_\_\_\_\_\_ if it meets appropriate standards or has been tested and found suitable for the purpose and is included in a list published by an organization that is acceptable to the AHJ.(p32)
22. approved
23. identified
24. labeled
25. listed
26. Equipment is \_\_\_\_\_\_\_\_ if it has been described in a particular Code requirement and recognized as being suitable for the specific purpose.(p31)
    1. approved
    2. identified
    3. labeled
    4. listed
27. Even if wires can become accessible by withdrawing them from a concealed conduit, they are considered \_\_\_\_\_\_\_ if they are rendered inaccessible by the structure or building’s finish.(p28)
    1. accessible (as applied to wiring methods)
    2. enclosed
    3. concealed
    4. rain-tight
28. A \_\_\_\_ is a unit of an electrical system that carries or controls electrical energy as its principal function. A \_\_\_\_\_ is an example of this.(p29)
    1. raceway; conduit
    2. fitting; connector
    3. device; fitting
    4. device; switch

Questions 9-12: Match the term with the correct definition below (A, B, C, D, E)

(Found on p30 & 31)

1. Grounding Electrode Conductor\_\_B\_\_
2. Grounded\_\_D\_\_
3. Equipment Grounding Conductor\_\_A\_\_
4. Grounded Conductor\_\_C\_\_
   * 1. conductor used to provide a ground fault current path
     2. conductor used to connect the equipment to a grounding electrode
     3. conductor of a circuit or system that is intentionally grounded
     4. connected to the Earth
5. A solderless pressure connector is a device that \_\_\_\_\_\_\_\_\_ between two or more conductors, or between a terminal and one or more conductors by means of mechanical pressure.(p29)
   1. establishes a connection
   2. protects the junction
   3. is not listed for use
   4. provides stability
6. When the term exposed is used by the N.E.C. it refers to \_\_\_\_\_\_\_.(p30)
   1. all of the following items
   2. parts that are not suitably guarded, isolated, or insulated
   3. wiring methods on, or attached to the surface or behind panels designed to allow access
   4. live parts capable of being inadvertently touched or approached nearer than a safe distance by a person
7. A location that may be temporarily subject to dampness or wetness.(p32)
   1. moist
   2. wet
   3. dry
   4. damp
8. Conduit that is installed underground or is in a concrete slab in direct contact with the earth is considered to be in a \_\_\_\_\_\_\_\_\_ location.(p32)
   1. moist
   2. wet
   3. dry
   4. damp

**Article 110**

1. Where the conductor material is not specified, the material and the sizes given in the CODE shall apply to \_\_\_\_\_\_\_\_ conductors.(Article 110.5)
   1. insulated
   2. stranded
   3. copper
   4. copper-clad
2. Completed wiring installations shall be free from \_\_\_\_\_\_\_\_\_\_.(Article 110.7)
   1. shorts circuits
   2. ground faults
   3. any connection to ground other than as required or permitted elsewhere
   4. “a”, “b” and “c” are correct
3. The NEC requires that electrical work be \_\_\_\_\_ (Article 110.12)
   1. installed in a neat and workmanlike manner
   2. installed under the supervision of a qualified person
   3. Completed before being inspected
   4. All Above
4. Only wiring methods recognized as \_\_\_\_\_\_\_ are included in the NEC. (Article 110.8)
   1. proficient
   2. efficient
   3. suitable
   4. cost-effective
5. In judging equipment for approval, considerations such as the following shall be evaluated: (Article 110.14)
   1. Mechanical strength
   2. Wire-bending space
   3. Arcing effects
   4. All of the above
6. Many terminations are marked with \_\_\_\_\_.(Article 110.14A)
   1. The material it’s made of
   2. A removable label
   3. A tightening torque
   4. The country of origin
7. The connection of conductors to terminal parts shall ensure a thoroughly good connection without damaging the conductors and shall be made by a means of: (Article 110.14B)
   1. solder lugs
   2. pressure connectors
   3. splices to flexible leads
   4. any method listed above
8. Wire splices that are soldered, must be mechanically and electrically secure before they are soldered together. (Article 110.14B)
   1. True
   2. False
9. Only wiring methods recognized as suitable are included in the Code. The recognized methods of wiring shall be permitted to be installed in any type of building or occupancy, except as otherwise provided in the Code. (Article 110.8)
   1. True
   2. False

**Article 200**

1. The white conductor within a cable can be used for the \_\_\_\_\_\_ conductor where permanently re-identified to indicate its use as an ungrounded conductor at each location where the conductor is visible and accessible.(Article 200.7C)
   1. Grounded
   2. Ungrounded
   3. Grounding
   4. All of the above
2. The continuity of a grounded conductor shall not depend on a connection to \_\_\_\_\_\_\_.(Article 200.2B)
   1. any of the following
   2. metallic enclosures
   3. raceways
   4. cable armors
3. The screw shell of a luminaire or lamp-holder shall be connected to the \_\_\_\_\_\_\_.(Article 200.10C)
   1. ground conductor
   2. grounded conductor
   3. ungrounded conductor
   4. luminaire bracket
4. The terminal on a receptacle that is intended for connection to the grounding conductor shall be identified by a metal or metal coating that is substantially white in color. (Article 200.10B1)
   1. True
   2. False
5. Means of identifying insulated conductors for use as a grounded conductor shall be identified \_\_\_\_\_\_\_\_\_\_\_.(Article 200.6A)
   1. by a continuous white or gray outer finish
   2. by three continuous white stripes along its entire length on other than green insulation
   3. both “a” and “b” are correct means
   4. none of the above
6. No grounded conductor shall be attached to any terminal so as to reverse the designated polarity. (Article 200.11)
   1. True
   2. False
7. A conductor which is size #8 AWG and is not white in color shall be permitted to be re-identified with white tape and used as a grounded conductor. (Article 200.6A)
   1. True
   2. False
8. A conductor which is size #2 AWG and is not white in color shall be permitted to be re-identified with white tape and used as a grounded conductor. (Article 200.6B)
   1. True
   2. False

**Article 90**

1. When converting units of measure between “SI” and “foot/pound”, \_\_\_\_\_\_\_\_\_ may be utilized. (Article 90.9 B&C)
   1. hard conversion
   2. soft conversion
   3. both hard and soft conversions
   4. neither hard nor soft conversions
2. The NEC does not cover installations in \_\_\_\_\_\_\_\_\_\_\_\_.(Article 90.2B)
   1. Aircraft Hangers
   2. Electric Vehicles
   3. Hoists
   4. All Above