Title: **Article 400, 402, 404, 406** Test: 5

Course: Electrical Applications Unit: Code CLO: 1

Name ANSWER KEY Station 25pts. 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 400**

1. The allowable ampacity of flexible cords and flexible cables is found in \_\_\_\_. (4)
   1. Table 310.15(B)(16)
   2. Tables 400.5(A)(1) and (2)
   3. Chapter 9, Table 1
   4. Table 430.52
2. A 3-conductor SJE cable (one conductor is used for grounding) has a maximum ampacity of \_\_\_ for each 16 AWG conductor. (6)
   1. 9A
   2. 11A
   3. 13A
   4. 15A
3. Flexible cords and flexible cables can be used for \_\_\_\_. (8)
   1. Wiring of luminaires
   2. Connection of portable luminaires or appliances
   3. Connection of utilization equipment to facilitate frequent interchange
   4. All of these
4. Flexible cord sets and power-supply cords shall not be used as a substitute for \_\_\_ wiring. (10)
   1. Temporary
   2. Fixed
   3. Overhead
   4. None of these
5. Flexible cord sets and power-supply cords shall not be concealed behind building \_\_\_\_\_, or run through doorways, windows, or similar openings. (12)
   1. Structural ceilings
   2. Suspended or dropped ceilings
   3. Floors or walls
   4. All of these
6. Flexible cord sets and power-supply cords shall not be permitted above suspended or dropped ceilings even if contained within an enclosure for use in “other spaces used for environmental air.” (13)
   1. True
   2. False
7. Flexible cords and flexible cables shall be protected by \_\_\_\_ where passing through holes in covers, outlet boxes, or similar enclosures. (15)
   1. Bushings
   2. Fittings
   3. a or b
   4. None of these
8. A flexible cord conductor intended to be used as a(n) \_\_\_\_\_ conductor shall have a continuous identity marker readily distinguishing it from the other conductor or conductors. One means of identification is a braid finished to show a continuous green color or a green color with one or more yellow stripes on one conductor. (17)
   1. Ungrounded
   2. Equipment grounding
   3. Service
   4. High-leg

**Article 402**

1. The smallest size fixture wire permitted by the NEC is \_\_\_\_ AWG. (2)
   1. 22
   2. 20
   3. 18
   4. 16
2. Fixture wires are used to connect luminaires to the \_\_\_\_\_ conductors supplying the luminaires. (4)
   1. Service
   2. Branch-circuit
   3. Feeder
   4. None of these
3. Fixture wires shall not be used for branch-circuit wiring, except as permitted in other articles of the *Code*. (5)
   1. True
   2. False

**Article 404**

1. Three-way and four-way switches shall be wired so that all switching is done only in the \_\_\_\_\_ circuit conductor. (1)
   1. Ungrounded
   2. Grounded
   3. Equipment ground
   4. Neutral
2. When grouping conductor of switch loops in the same raceway, it is not required to include a grounded conductor. (2)
   1. True
   2. False
3. Switches controlling line-to-neutral lighting loads shall have a grounded conductor provided at the switch location unless the \_\_\_. (5)
   1. Conductors enter the device box through a raceway that has sufficient area to accommodate a grounded conductor
   2. Box enclosing the switch is accessible for the installation of an additional or replacement cable without removing finish materials
   3. Lighting consists of all fluorescent fixtures with integral disconnects for the ballasts
   4. a and b
4. Which of the following switches shall indicate whether they are in the open (off) or closed (on) position? (9)
   1. General-use switches
   2. Motor-circuit switches
   3. Circuit breakers
   4. All of these
5. Metal faceplates for snap switches, including dimmer and similar control switches, shall be \_\_\_\_. (15)
   1. Bonded to the grounded electrode
   2. Grounded
   3. a and b
   4. None of these
6. Snap switches shall not be grouped or panged in enclosures unless the voltage between adjacent device does not exceed \_\_\_\_. (12)
   1. 100V
   2. 200V
   3. 300V
   4. 400V
7. A snap switch with an integral nonmetallic enclosure complying with 300.15(E) is required to be connected to an equipment grounding conductor. (20)
   1. True
   2. False
8. Snap switches rated \_\_\_\_ or less directly connected to aluminum conductors shall be listed and marked CO/ALR. (26)
   1. 15A
   2. 20A
   3. 25A
   4. 30A
9. Switches shall be marked with the \_\_\_\_. (28)
   1. Current
   2. Voltage
   3. Maximum horsepower, if horsepower rated
   4. All of these

**Article 406**

1. A child care facility is a building or structure, or portion thereof, used for educational, supervision, or personal care services for more than \_\_\_\_ children seven yours in age or less. (1)
   1. two
   2. three
   3. four
   4. six
2. Receptacles rated \_\_\_\_ or less and designed for the direct connection of aluminum conductors shall be listed and marked CO/ALR. (3)
   1. 15A
   2. 20A
   3. 25A
   4. 30A
3. When replacing receptacles in locations that would require GFCI protection under the current *NEC*, \_\_\_\_\_ receptacles shall be installed. (15)
   1. Dedicated
   2. Isolated ground
   3. GFCI-protected
   4. Grounding
4. Receptacles mounted to and supported by a cover shall be secured by more than one screw unless listed and identified for securing by a single screw. (21)
   1. True
   2. False
5. Grounding-type attachment plugs shall be used only with a cord having a(n) \_\_\_\_ conductor. (39)
   1. Equipment grounding
   2. Isolated
   3. Computer circuit
   4. Insulated