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WA Elec. – Answer all questions - 50% of the following will appear in random order with random answers - required by WA LNI

Quiz #1

1. The provisions of this article (440) apply to electric motor-driven air-conditioning and refrigerating equipment and to the branch circuits and controllers for such equipment. It does not apply to \_\_\_\_\_.
  - A. hermetic motors
  - B. semi-hermetic motors
  - C. absorption refrigeration
  - D. refrigeration
2. The provisions for special considerations necessary for circuits supplying \_\_\_\_\_.
  - A. semi-hermetic motors
  - B. hermetic compressor motors
  - C. open type compressor motors
  - D. large horse power motors
3. A fully enclosed motor and compressor in the same welded shell \_\_\_\_\_.
  - A. prevents refrigerant leakage
  - B. motor prevents overheating
  - C. lessens belt replacement
  - D. allows for easy repair
4. A hermetic motor compressor \_\_\_\_\_.
  - A. has belt drive
  - B. is external to the compressor
  - C. is painted green in color
  - D. is in a welded compressor body
  - E. None of the answers provided

5. Semi-hermetic compressors have direct connection to the motor, but the sealing is accomplished by bolting machined parts together, which allows for \_\_\_\_\_.
  - A. easy refrigerant replacement and maintenance
  - B. easy belt replacement and maintenance
  - C. the unit to be dismantled for maintenance and limited parts replacement
  - D. better leak prevention
  
6. Open type compressors have a \_\_\_\_\_.
  - A. bolted together motor and compressor
  - B. welded together motor and compressor
  - C. no motor needed
  - D. separate motor and compressor
  
7. Article 440 is in addition to requirements that are found in Article 430 Motors.
  - A. True
  - B. False
  
8. Many requirements in 440 are the same as those found in 430 for \_\_\_\_\_.
  - A. disconnecting means
  - B. sizing of conductors
  - C. controllers and other devices
  - D. A, B, and C
  
9. The value of branch-circuit selection current will always be equal to or greater than the marked \_\_\_\_\_.
  - A. rated-load current.
  - B. run load amps
  - C. full load amps
  - D. overcurrent protective device
  
10. ] The branch-circuit selection current is sometimes referred to as \_\_\_\_\_.
  - A. maximum circuit capacity
  - B. minimum circuit capacity
  - C. rated load current
  - D. full load Amps
  
11. An LCDI or leakage current detection interrupter is \_\_\_\_\_.
  - A. an GFCI
  - B. an ELCI
  - C. a Fuse protector
  - D. an Arc Fault
  - E. used to sense an breakage in the power supply cord
  
12. Definition: The current of a hermetic refrigerant motor-compressor resulting when it is operated at the rated \_\_\_\_\_.
  - A. frequency
  - B. load
  - C. voltage
  - D. all of the above
  
13. Definition: The current of a hermetic refrigerant motor-compressor resulting when it is operated at the rated \_\_\_\_\_ value beyond which the machine will not operate according to its manufactured standard.
  - A. minimum
  - B. lowest
  - C. middle
  - D. maximum
  
14. Article 440 is used as \_\_\_\_ to Article 430 (motors).
  - A. an exception
  - B. instead of
  - C. as an alternate
  - D. an addition to
  
15. The rules of Articles\_\_\_\_\_,or\_\_\_\_\_, or \_\_\_\_\_, as applicable, shall apply to air-conditioning and refrigerating equipment that does not incorporate a hermetic refrigerant motor-compressor.
  - A. 496, 501 and 569
  - B. 495, 557 and 568
  - C. 422, 424, and 430
  - D. 491, 668, and 568

16. Household refrigerators and freezers, drinking-water coolers and beverage dispensers are considered by the Code to be appliances, and their application must comply with \_\_\_\_\_ and must also satisfy \_\_\_\_\_, because such devices contain sealed motor-compressors (hermetic).
- Article 110, 420
  - Article 422, 440
  - Article 420, 424
  - Article 110, 430

### Quiz # 2

- Hermetic refrigerant motor-compressors, circuits, controllers, and equipment shall also comply with the applicable provisions of \_\_\_\_\_.
  - Table 760.176(G)
  - Table 440.3 (D)
  - Table 690.31(E)
  - Table 685.3
- A hermetic refrigerant motor-compressor shall be provided with a nameplate that shall indicate the \_\_\_\_\_.
  - phase
  - volts
  - frequency
  - A, B, and C
  - None of the answers provided.
- Multi-motor and combination-load equipment shall be provided with a visible nameplate marked with the maker's name, the rating in volts, frequency and number of phases, \_\_\_\_\_, and the short-circuit current rating of the motor controllers or industrial control panel.
  - the minimum supply short-circuit conductor ampacity
  - the max short circuit
  - max. ground fault
  - A, B, and C
- The locked-rotor current of each single-phase motor-compressor having a rated-load current of more than 9 amperes at 115 volts, or more than 4.5 amperes at 230 volts, and \_\_\_\_\_ shall be marked on the motor-compressor nameplate.
  - each poly-phase motor-compressor
  - each 2-horse and above motor-compressor
  - each hermetic motor compressor
  - each non-hermetic motor-compressor
- Where a thermal protector complying with 440.52(A)(2) and (B)(2) is used, the motor-compressor nameplate or the equipment nameplate shall be marked with the words "\_\_\_\_\_."
  - protected motor
  - heat switch
  - heat protected motor
  - thermally protected
- The ampacity shall be calculated by using Part IV, and counting all the motors and other loads that will be \_\_\_\_\_.
  - run continuously
  - operated separately
  - operated at the same time
  - none of the above
- The manufacturer will multiply the maximum expected ampacity load of 14.0 amps x 1.25 to determine the minimum supply circuit conductor ampacity rating needed for this device = 18.5 amps. What breaker would be used?
  - 15 amp
  - 20 amp
  - 30 amp
  - none of the above
- Minimum supply circuit conductor ampacity is supplied by the \_\_\_\_\_.
  - electrician
  - building contractor
  - owner
  - manufacturer

9. If installed in a \_\_\_\_\_, then Short Circuit Rating is NOT required on the nameplate.
  - A. high rise apartment
  - B. single family house
  - C. convenience store
  - D. grocery store
  - E. none of the answers provided
  
10. As long as the HVAC equipment has a short-circuit current rating equal to or greater than the available short circuit current, then the installation complies with NEC 110.10.
  - A. True
  - B. False
  
11. (For Exception No. 1: a multi-motor and combination-load equipment that is suitable under the provisions of this article for connection to a (440.4 B) single 20 ampere, \_\_\_\_\_, single phase branch circuit shall be permitted to be marked as a single load.
  - A. 120 volt
  - B. 208 volt
  - C. 240 volt
  - D. none of the above
  
12. A controller shall be marked with \_\_\_\_\_.
  - A. manufacturer's name, trademark, or symbol
  - B. identifying designation
  - C. voltage, phase
  - D. full-load and locked-rotor current rating
  - E. such other data as may be needed to properly indicate the motor-compressor for which it is suitable
  - F. A, B, C, D, and E
  
13. A controller is a device or group of devices that serves to govern, in some predetermined manner, the electric power delivered to the apparatus to which it is connected.
  - A. True

B. False

14. For a hermetic refrigerant motor-compressor, the rated-load current marked on the nameplate of the equipment in which the motor-compressor is employed shall be used in determining the rating or ampacity of :
  - A. separate motor overload protection
  - B. the disconnecting means
  - C. the controller
  - D. the branch-circuit short circuit
  - E. All of the answers provided
  
15. Where no rated-load current is shown on the equipment nameplate, the rated-load current shown on the \_\_\_\_\_ shall be used.
  - A. controller name plate
  - B. compressor nameplate
  - C. motor nameplate
  - D. all the above

### Quiz # 3

1. Where so marked, the \_\_\_\_\_ shall be used instead of the rated-load current to determine the rating or ampacity of the disconnecting means, the branch-circuit conductors, the controller, and the branch-circuit short-circuit and ground-fault protection.
  - A. branch-circuit selection current
  - B. minimum circuit ampacity
  - C. neither A or B
  - D. either A or B
  
2. For cord-and-plug-connected equipment, the name plate marking shall be used in accordance with 440.22(B)
  - A. True
  - B. False
  
3. The nameplate marking of cord-and-plug-connected equipment rated not greater than \_\_\_\_\_ shall be used in determining the branch-circuit requirements, and each unit shall be

- considered as a single motor unless the nameplate is marked otherwise.
- A. 208 VAC, 3 phase
  - B. 120 VAC, 1 phase
  - C. 250 VAC, 1 phase
  - D. none of the answers provided
4. For multi-motor equipment employing a shaded-pole or permanent split-capacitor-type fan or blower motor, the full-load current for such motor marked on the nameplate of the equipment in which the fan or blower motor is employed shall be used instead of the \_\_\_\_\_ .
- A. phase
  - B. horsepower rating
  - C. volts
  - D. frequency
5. The highest rated (largest) motor shall be considered to be the motor that has the highest rated load current.
- A. True
  - B. False
6. Where two or more motors have the same highest rated load current, \_\_\_\_\_ shall be considered as the highest rated (largest) motor.
- A. only one of them
  - B. all of them
  - C. sum of all divided by that sum
  - D. none of the above
7. ] \_\_\_\_\_, the branch-circuit selection current shall be used instead of the rated load current in determining the highest rated (largest) motor-compressor.
- A. At the electrician's discretion
  - B. When it is largest
  - C. Where so marked
  - D. None of the above
8. Even if motors are located remotely, they can be considered a \_\_\_\_\_ .
- A. separate system
  - B. dual machine
  - C. single machine
  - D. all of the above
9. \_\_\_\_\_ must be installed in a metallic raceway that uses non-threaded fittings.
- A. Extra heavy weight screws
  - B. Extra strength compression fittings
  - C. A grounding conductor
  - D. Both A and B
10. Which of the follow cannot be threaded?
- A. EMT
  - B. RMC
  - C. GRC
  - D. IMC
  - E. none of the answers provided
- A motor controller short-circuit rating must be \_\_\_\_\_ the short-circuit rating of the equipment.
- A. Greater than
  - B. Less than
  - C. Equal than
  - D. none of the above
11. Short Circuit Current Rating (SCCR) is a rating on components and assemblies representing the \_\_\_\_\_ level of short-circuit current that a component or assembly can withstand.
- A. minimum
  - B. maximum
  - C. lowest
  - D. all the above

### Quiz 4

1. The provisions of Part II are intended to require disconnecting means capable of disconnecting air-conditioning and refrigeration equipment, including motor-compressors and controllers from the circuit conductors.
  - A. True
  - B. False
2. Horsepower is used to determine \_\_\_\_\_ .

- A. A conductor’s size for the motor
  - B. the size of fuses and breakers for Short-Circuit protection
  - C. the size of fuses and breakers for Ground-Fault protection
  - D. all the above
3. Equivalent Horsepower If the total amount of a motors FLC or RLA is 19 amps and the minimum supply circuit conductor ampacity is 21 amps. Which value should be used?
- A. 19
  - B. 21
  - C. The average of the two values
  - D. none of the answers provided
4. Equivalent Horsepower.)[pg.65] In case different horsepower ratings are obtained when applying NEC tables, a horsepower rating of the \_\_\_\_\_ of the values obtained shall be selected.
- A. smaller
  - B. larger
  - C. sum
  - D. none of the answers
5. For small motor-compressors not having the locked-rotor current marked on the nameplate, or for small motors not covered by Table 430.247, Table 430.248, Table 430.249, or Table 430.250, the locked-rotor current shall be assumed to be \_\_\_\_\_ the rated-load current.
- A. three times
  - B. four times
  - C. five times
  - D. six times
6. Every disconnecting means in the refrigerant motor-compressor circuit between the point of attachment to the feeder and the point of connection to the refrigerant motor-compressor shall comply with the requirements of \_\_\_\_\_ .
- A. 430.247
  - B. 440.12
  - C. 430.109
  - D. none of the above
7. For cord-connected equipment such as room air conditioners, household refrigerators and freezers, drinking water coolers, and beverage dispensers, a separable connector or an attachment plug and receptacle shall be permitted to serve as the \_\_\_\_\_ .
- A. True
  - B. False
8. Disconnecting means shall be located \_\_\_\_\_ and readily accessible from the air-conditioning or refrigerating equipment.
- A. on the equipment
  - B. within sight from
  - C. within the room
  - D. within 100 ft. of the equipment
9. A quick definition of Readily Accessible would be: Easy to reach without using a ladder or overcoming any obstacles.
- A. True
  - B. False
10. Disconnecting means shall be located \_\_\_\_\_ from, and readily accessible from the air-conditioning or refrigerating equipment.
- A. within reach of
  - B. within 100 ft of
  - C. within sight of
  - D. none of the above
11. The disconnecting means shall not be permitted to be installed on or within the air-conditioning or refrigerating equipment.
- A. True
  - B. False
12. A 125-volt, single-phase, 15- or 20-ampere (GFCI)-rated receptacle outlet shall be installed at an accessible location for the servicing of heating, air-

conditioning, and refrigeration equipment. The receptacle shall be located on the same level and within \_\_\_\_\_ of the equipment .

- A. 10 feet of
- B. 15 feet
- C. 25 feet
- D. 50 feet

13. If a disconnecting means is required to be lockable open elsewhere in this Code, it shall be capable of being locked in the open position.
- A. True
  - B. False

14. Where an attachment plug and receptacle serve as the disconnecting means in accordance with 440.13, their location shall be accessible but shall not be required to be \_\_\_\_\_.
- A. Less than 25 feet of an outlet
  - B. readily accessible
  - C. lockable
  - D. white in color

motor, the rating or setting shall be permitted to be increased but shall not exceed \_\_\_\_\_ of the motor rated load current or branch-circuit selection current, whichever is \_\_\_\_\_ .

- A. 225 percent, greater
- B. 175 percent, greater
- C. 225 percent, lesser
- D. 175 percent, lesser

4. The rating of the branch-circuit short-circuit and ground fault protective device shall not be required to be less than 20 amperes
- A. True
  - B. False

5. A protective device shall have a rating not exceeding 175 percent of the motor-compressor rated-load current or \_\_\_\_\_, whichever is greater.
- A. locked rotor amps:
  - B. full-load-amperage
  - C. branch-circuit selection current
  - D. none of the above

*\*Standard sized fuses and breakers: 10, 15, 20, 25, 30, 35, 40, 45, 50*

*Round down to nearest fuse size.*

*The following questions will involve solving for the fuse size.*

6. Given an Ice machine RLA = 8.5 amps @ 230 volts and prep table 6.5 amps @ 230 volts.

What is the fuse size at 175%?

- A. 15
- B. 20
- C. 25
- D. 30

7. Given an ice machine RLA = 8.5 amps @ 230 volts and prep table 6.5 amps @ 230 volts. What is the fuse size when motor will not start at standard.

- A. 40
- B. 35
- C. 30

Quiz 5

1. When an air conditioning is listed by a qualified electrical testing laboratory with a nameplate that reads "maximum fuse size," the listing restricts the use of this unit to fuse or circuit breaker of like size.
- A. True
  - B. False
2. The correct method of wiring when the nameplate specifies that fuses are to used to protect the equipment is \_\_\_\_\_ .
- A. Circuit breaker, fused switch, equipment
  - B. Circuit breaker, fused switch, fuseless switch, equipment
  - C. Circuit breaker, fused switch, circuit breaker, equipment
  - D. All the answers provided
3. Where the protection specified is not sufficient for the starting current of the

D. 25

8. Given an ice machine branch circuit selection current that equals 17 amps and a food preparation table at 14 amps, what fuse size is needed?

- A. 15
- B. 20
- C. 25
- D. 30
- E. 35

Quiz 6

1. For a wye-start, delta-run connected motor-compressor, the selection of branch-circuit conductors between the controller and the motor-compressor shall be permitted to be based on \_\_\_\_\_ of either the motor-compressor rated-load current or the branch-circuit selection current, whichever is greater.

- A. 50%
- B. 125%
- C. 72%
- D. 58%
- E. 225%

2. When a motor first starts, the current is equal to LRA, but then \_\_\_\_\_.

- A. the motor shuts down when the breaker is tripped
- B. amperage drops as the motor speed increases
- C. the motor speed decreases in order to reduce the current
- D. amperage increases as the motor speed increases
- E. the motor is likely to overheat

3. Motor windings in a delta configuration \_\_\_\_\_.

- A. are arranged in a "Y" shape
- B. provide low starting torque
- C. are arranged in an "S" shape
- D. provide high starting torque
- E. are found in most compressors rated greater than 20 tons

4. To limit the starting current surge and the disturbance of voltage on the supply lines, large induction motors are started at reduced voltage and can then be increased to full supply voltage when at full rotating speed.

- A. True
- B. False

5. Wye configuration current is approximately \_\_\_\_\_ of delta configuration LRA.

- A. 10%
- B. 20%
- C. 30%
- D. 50%
- E. 57.8%

6. Motor windings in the \_\_\_\_\_ configuration have a lower manufacturing cost because less insulation is required around the windings.

- A. delta
- B. S
- C. wye
- D. round
- E. X

7. 3-phase motor windings in a wye configuration is ideal for \_\_\_\_\_ a motor-compressor.

- A. running
- B. maintaining
- C. cleaning
- D. overheating
- E. starting

8. 3-phase motor windings in a \_\_\_\_\_ configuration are ideal for running a motor-compressor.

- A. Q
- B. wye
- C. X
- D. delta
- E. Z

9. The individual motor circuit conductors of wye-start, delta-run connected motor-compressors carry 58 percent of the \_\_\_\_\_.



- A. rated-load current
- B. LRA
- C. rated voltage
- D. branch-circuit selection current
- E. conductor resistance

10. The ampacity of a conductor supplying a motor-compressor marked with branch-circuit rating = 28 amps and RLA = 20 amps must be no less than

\_\_\_\_\_.

- a. 18 amps
- b. 20 amps
- c. 33 amps
- d. 28 amps
- e. 48 amps

11. The ampacity of a conductor supplying a motor-compressor marked with branch-circuit rating = 15 amps and RLA = 7.5 amps must be at least

\_\_\_\_\_.

- a. 7.5 amps
- b. 16.9 amps
- c. 15 amps
- d. 30 amps
- e. 22.5 amps

12. Where the circuitry is interlocked so as to prevent the starting and running of a second motor-compressor or group of motor-compressors, the conductor size shall be determined from the \_\_\_\_\_ motor-compressor or group of motor-compressors that is to be operated at a given time.

- a. smallest
- b. first
- c. largest
- d. last
- e. newest

13. The branch-circuit conductors for \_\_\_\_\_ shall be in accordance with Part VII of Article 440.

- a. beverage dispensers
- b. semi-hermetic motor compressors
- c. household freezers
- d. room air conditioners
- e. industrial air conditioners

14. The ampacity of the conductors supplying multimotor and combination-load equipment shall not be less than the \_\_\_\_\_ marked on the equipment in accordance with 440.4(B).

- a. rated voltage
- b. anticipated resistance
- c. LRA
- d. maximum OCPD amps
- e. minimum circuit ampacity

Quiz 7

1) A motor-compressor's nameplate is marked with RLA = 20 amps and branch-circuit rating of 28 amps. Which of the following is required of the motor-compressor's controller?

- A. The FLC and LRA ratings must be 28 amps or greater.
- B. The locked-rotor current must be no less than 48 amps.
- C. The full-load current rating must be greater than 20 amps.
- D. The FLC and LRA ratings must be 20 amps or greater.
- E. None of the answers provided.

2) In a case where a motor controller is rated in \_\_\_\_\_ but is without a continuous-duty full-load current rating and/or a locked-rotor current rating, an equivalent FLC must be determined from Table 430.248, Table 430.249, and Table 430.250.

- A. a foreign language
- B. a voltage range
- C. horsepower
- D. frequency
- E. amperes

3) A separate overload relay protecting a motor-compressor must be selected to trip at \_\_\_\_\_ of the motor-compressor rated-load current.

- A. at least 120%
- B. no more than 110%
- C. approximately 150%
- D. not more than 140%
- E. exactly 136%

4) A protector approved for use with the motor-compressor to prevent dangerous overheating from overload or failure to start is \_\_\_\_\_.

- A. a Mag-starter
- B. an Internal thermal protector
- C. an Inverse-time circuit breaker
- D. protective system
- E. All of the answers provided

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5) An inverse-time circuit breaker protecting a motor-compressor must have a rating of not more than \_\_\_\_\_ of the motor-compressor rated-load current.

- A. 110%
- B. 140%
- C. 125%
- D. 225%
- E. 130%

6) A motor-compressor controller, disconnecting means, and branch-circuit conductors must be protected against \_\_\_\_\_ due to motor overload and failure to start.

- A. excessive vibration
- B. overcurrent
- C. undercurrent
- D. resistance
- E. device failure

7) A motor-compressor overload protective device shall be identified for installation with the short-circuit and ground-fault protective device for the branch circuit to which the equipment is connected.

- A. True
- B. False

8) The rating of cord connector overload protection for equipment used on a 20-ampere, 120-volt single-phase branch circuit shall not exceed \_\_\_\_\_ amperes at 125 volts.

- A. 15
- B. 18
- C. 25
- D. 10
- E. 20

9) The \_\_\_\_\_ of a room air conditioner shall be connected to the equipment grounding conductor in accordance with 250.110, 250.112, and 250.114.

- A. fan
- B. attachment plug
- C. enclosures
- D. control dial
- E. mounting screws

10) Which of the following is not a requirement for considering a room air conditioner to be a single motor unit when determining its branch circuit requirements?

- A. It is cord- and attachment-plug connected.
- B. The rating of the branch-circuit short-circuit and ground-fault protective device does not exceed the ampacity of the branch-circuit conductors or the rating of the receptacle, whichever is less.
- C. Its rating is more than 250 volts.
- D. Its rating is not more than 40 amperes and 250 volts, single phase.
- E. Total rated-load current is shown on the room air conditioner nameplate rather than individual motor currents.

11) A 30-amp branch circuit supplying only a cord- and attachment-plug-connected room air conditioner is permitted to serve an air conditioner load of \_\_\_\_\_.

- A. at least 24 amps
- B. no more than 24 amps
- C. as much as 30 amps
- D. 24 to 30 amps
- E. none of the answers provided

12) The total marked rating of a cord- and attachment plug-connected room air conditioner shall not exceed \_\_\_\_\_ percent of the rating of a branch circuit where lighting outlets, other appliances, or general-use receptacles are also supplied.

- A. 35
- B. 225
- C. 75
- D. 50
- E. 100

13) An attachment plug and receptacle shall be permitted to serve as the disconnecting means for a single-phase room air conditioner rated 250 volts or less if the manual controls on the room air conditioner are readily accessible and located \_\_\_\_\_.

- A. within 6 feet of the floor
- B. in the same room as the air conditioner
- C. at least 18 inches above the flood line
- D. on the air conditioner’s enclosure
- E. within arm’s reach of the floor

14) Where a flexible cord is used to supply a room air conditioner, the length of such cord shall not exceed \_\_\_\_\_ for a nominal, 120-volt rating

- A. 6 feet

- B. 36 inches
- C. 10 feet
- D. 60 inches
- E. 20 feet

15) Which of the following factory-installed devices is not a permissible protection device for a single-phase cord- and plug-connected room air conditioner?

- A. LCDI
- B. AFCI
- C. HDCI
- D. AFDI
- E. none of the answers provided

**Table 430.251(A) Conversion Table of Single-Phase Locked-Rotor Currents for Selection of Disconnecting Means and Controllers as Determined from Horsepower and Voltage Rating**  
 For use only with 430.110, 440.12, 440.41, and 455.8(C).

Rated Horsepower	Maximum Locked-Rotor Current in Amperes, Single Phase		
	115 Volts	208 Volts	230 Volts
1/2	58.8	32.5	29.4
3/4	82.8	45.8	41.4
1	96	53	48
1-1/2	120	66	60
2	144	80	72
3	204	113	102
5	336	186	168
7-1/2	480	265	240
10	1000	332	300

**Table 440.3(D) Other Articles**

<b>Equipment / Occupancy</b>	<b>Article</b>	<b>Section</b>
Capacitors		460.9
Commercial garages, aircraft hangars, motor fuel dispensing facilities, bulk storage plants, spray applications, dipping and coating processes, and inhalation anesthetizing locations	511, 513, 514, 515, 516, and 517 Part IV	
Hazardous (classified) locations	500-503, 505, and 506	
Motion picture and television studios and similar locations	530	
Resistors and reactors	470	