Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. The power supply to the mobile home shall be a feeder assembly consisting of not more than one listed ___-ampere mobile power-supply cord with an integrally molded or securely attached plug cap or a permanently installed feeder.
   a. 50  
   b. 30  
   c. 60  
   d. 20  
   e. 100

2. Conductors supplying a fire pump motor(s), pressure maintenance pumps, and associated fire pump accessory equipment shall have a rating not less than ___% of the sum of the fire pump motor(s) and pressure maintenance motor(s) full-load current(s), and ___% of the associated fire pump accessory equipment.
   a. 125 100  
   b. 100 100  
   c. 100 125  
   d. 125 125

3. A motor controller enclosure that is subject to occasional prolonged submersion shall be type ___.
   a. 3S  
   b. 6P  
   c. 12  
   d. 4X

4. All live parts of electrical apparatus in the hoistways, at the landings, in or on the cars of elevators and dumbwaiters, in the wellways or the landings of escalators or moving walks, or in the runways and machinery spaces of platform lifts and stairway lifts shall be ___ to protect against accidental contact.
   a. arranged  
   b. enclosed  
   c. separated  
   d. guarded  
   e. grounded

5. A multiwire branch circuit, to serve linear loads, is run from Panel LA3 which is a 208Y/120-volt, 3Ø, 4-wire panelboard. The current on LA3-2 is 10 amps. The current on LA3-10 is 12 amps. The current on LA3-5 is 8 amps. How much current should be flowing in the neutral? The formula for neutral current in a wye system is: 
   \[ I_N = \sqrt{I_A^2 + I_B^2 + I_C^2 - (I_A \times I_B - I_A \times I_C - I_B \times I_C)} \]
   a. 3.46  
   b. 12  
   c. 144  
   d. .345

6. The connection of the grounding electrode conductor to a grounding electrode shall ___.
   a. be readily accessible  
   b. be made in a manner that will ensure a permanent and effective grounding path  
   c. not require bonding around insulated joints of a metal piping system  
   d. all of these

7. Shore power receptacles in a marina are required to be ___ if rated at 50 amps.
   I. of the locking and grounding type  
   II. of the pin and sleeve type  
   III. single receptacles
   a. III only  
   b. II & III only  
   c. I only  
   d. I & III only  
   e. II only

8. The service equipment for a floating building shall be located ___ the building.
   a. adjacent to  
   b. in  
   c. on  
   d. any of these

9. A feeder tap over 10 feet long, but less than 25 feet long, is permitted without overcurrent protection at the tap point, providing the ___.
   a. ampacity of the tap conductors is not less than one-third of the rating of the overcurrent device protecting the feeder conductors
   b. tap conductors terminate in a single circuit breaker or a single set of fuses that limit the
load to the ampacity of the tap conductors
c. tap conductors are protected from physical damage
d. all of these

10. A unit or assembly of units or sections and associated fittings forming a structural system used to securely fasten or support cables and raceways would be the definition of a(n) ___.
   a. wireway  c. cable tray system
   b. multioutlet assembly  d. FCC system

11. What is the maximum time period allowed for outdoor Christmas decoration lighting for residences?
   a. 30 days  c. 90 days
   b. 60 days  d. 30 days after Christmas

12. A 25 KVAR capacitor bank is connected to a 100 hp, three-phase motor. The motor is connected to a 480-volt, three-phase line. The minimum wire size required to connect the capacitor bank is ___ AWG. Conductors are THHN copper.
   a. 1/0  b. 4  c. 2/0  d. 8  e. 6

13. Electric vehicle supply equipment shall be provided with a(n) ___ that de-energizes the electric vehicle connector and its cable whenever the electrical connector is uncoupled from the electric vehicle.
   a. disconnecting means  d. interlock
   b. shunt-trip circuit breaker  e. operator mechanism
   c. trigger

14. If an apartment complex has a lighting load of 205.4 kVA, what is the demand factor of this lighting load in kVA? Each apartment contains an electric range. (The optional method is not to be used.)
   a. 602 kVA  b. 16.5 kVA  c. 63.0 kVA  d. 65.3 kVA

15. In which of the following locations is a cable tray prohibited to be installed?
   a. basements  c. sealed ceiling spaces
   b. storage rooms  d. when passing through a wall

16. A ___ is any building that is of closed construction and is made or assembled in manufacturing facilities on or off the building site for installation, or for assembly and installation on the building site, other than manufactured homes, mobile homes, park trailers, or recreational vehicles.
   a. building system  c. manufactured building
   b. temporary installation  d. none of these

17. The overall length of a mobile home power-supply cord, measured from the end of the cord, including bared leads, to the face of the attachment plug cap shall not be less than ___ feet and shall not exceed ___ feet.
   a. 20 50  b. 12 30  c. 11 20  d. 21 36\(\frac{1}{2}\)

18. Switches, flashers, and similar devices controlling transformers and electronic power supplies shall be rated for controlling inductive loads or have a current rating not less than ___ percent of the current rating of the transformer.
   a. 80  b. 100  c. 125  d. 200

19. Fixed, mobile, or portable electric signs shall be ___.
   a. listed  c. electrically isolated
   b. permanently installed  d. approved

20. Fixed outdoor electric deicing and snow-melting equipment shall be protected by ___.
   a. ground-fault circuit-interrupter protection for personnel
   b. ground-fault circuit-interrupter protection for equipment
21. A single-family residence is served with insulated 120/240-volt service-drop conductors, supported with a grounded messenger wire from the utility company. This service drop crosses the pool and the pool has a diving board that is 5 feet above the water level. The minimum height above water level of the service drop as permitted by the NEC is ___ feet.
   a. 25
   b. 14 1/2
   c. 22 1/2
   d. 19 1/2

22. Where installed in cable tray in industrial establishments, single conductors used as equipment grounding conductors shall be insulated, covered, or bare, and they shall be ___ AWG or larger.
   a. 1
   b. 1/0
   c. 4/0
   d. 4

23. Heating assemblies employing resistance heating elements intended to heat nonmetallic pipelines or vessels may use the factory-installed attachment plug as the disconnecting means when ___ and the voltage is 150 volts or less.
   a. it is operating at 20 amps or less
   b. it is a ground-fault protected circuit
   c. it is operating at 30 amps or less and is GFCI protected
   d. it is operating at 20 amps or less and is GFCI protected

24. When 10/2 AWG with ground type SO cord is used to supply border lights in a theater, the cable has an ampacity of ___ amps.
   a. 41
   b. 20
   c. 30
   d. 25
   e. 47

25. In the case of transformer feeder taps with primary plus secondary not over 25 feet long, conductors supplying a transformer shall be permitted to be tapped, without overcurrent protection, at the tap where the conductors supplying the ___ of a transformer have an ampacity at least one-third of the rating of the overcurrent device protecting the feeder conductors.
   a. primary
   b. secondary
   c. tertiary
   d. none of these

26. A travel trailer is a vehicular unit, mounted on wheels, designed to provide temporary living quarters for recreational, camping, or travel use, of such size or weight as not to require special highway movement permits when towed by a motorized vehicle, and of gross trailer area less than ___ square feet.
   a. 37
   b. 30
   c. 320
   d. 400
   e. 500

27. Where cable trays support individual conductors and where the conductors pass from one cable tray to another, or from a cable tray to raceway(s) or from a cable tray to equipment where the conductors are terminated, the distance between cable trays or between the cable tray and the raceway(s) or the equipment shall not exceed ___ feet.
   a. 1 1/2
   b. 6
   c. 1/2
   d. 1
   e. 3

28. A motor control circuit ___.
   I. carries electric signals to the controller and carries the main power
   II. does not carry electric signals to the controller but does carry the main power
   III. carries the electric signals to the controller but does not carry main power
   a. I only
   b. II only
   c. III only
   d. none of these

29. Which of the following is required for temporary wiring?
   a. Flexible cords shall be protected from accidental damage.
   b. All branch circuits shall originate in an approved panelboard.
   c. All conductors shall be protected as provided in Article 240.
   d. All of these.
30. The mobile home service equipment is 
   I. permitted to be installed on the exterior wall of the mobile home 
   II. required to be not more than 30 feet from the exterior wall of the mobile home it serves 
   a. either I or II  b. I only  c. neither I nor II  d. II only

31. Agricultural building luminaires shall be installed to minimize the entrance of 
   a. moisture  c. dust  
   b. corrosive material  d. all of these

32. Where capacitors are accessible to unauthorized and unqualified persons, they shall be 
   so that persons cannot come into accidental contact with exposed energized parts, terminals, or buses associated with them. 
   a. enclosed  b. located  c. guarded  d. any of these

33. An RV campground has 150 campsites with electrical power. Twenty-five of the campsites are reserved as 
   tent sites. How many sites are required to have a 20-amp, 125-volt receptacle? 
   a. 88  b. 125  c. 150  d. 0  e. 25

34. is a system in which heat is generated on the inner surface of a ferromagnetic envelope embedded in or 
   fastened to the surface to be heated. 
   a. Duct heaters  c. Space heating  
   b. Electrode-type boilers  d. Skin effect heating

35. Where an assembly occupancy forms a portion of a building containing other occupancies, occupancy of any 
   room or space for assembly purposes by less than 
   persons in one of the other occupancies shall be 
   classified as part of the other occupancy and subject to the provisions applicable thereto. 
   a. 200  b. 99  c. 100  d. 101

36. A circuit breaker with a voltage rating, such as 240V or 480V, shall be permitted to be applied in a circuit 
   in which the nominal voltage between any two conductors does not exceed the circuit breaker’s voltage 
   rating. 
   a. straight  b. slash  c. high  d. low

37. Where single-phase loads are connected on the load side of a phase converter, they shall not be connected to 
   the 
   a. high leg  c. manufactured phase  
   b. grounded phase  d. neutral

38. Fixed stage switchboards (within theaters) shall be of the type and shall comply with Part IV of Article 
   408 unless approved based on suitability as a stage switchboard as determined by a qualified testing 
   laboratory and recognized test standards and principles. 
   a. dimmer  b. dead-front  c. portable  d. weatherproof

39. Unless specifically listed for the purpose and location, the coupling means of electric vehicle supply 
   equipment shall be stored or located at a height of not less than inches and not more than 
   feet above 
   an indoor parking surface. 
   a. 18 4  b. 12 8  c. 36 7  d. 24 4

40. Fire pump supply conductors on the load side of the final disconnecting means and overcurrent devices shall 
   be permitted to be routed through a building if they are 
   a. encased by at least 2 inches of concrete  
   b. protected by a fire-rated assembly listed to achieve a minimum fire rate of 2 hours and 
      dedicated to the fire pump circuit  
   c. a listed electrical circuit protective system with a minimum 2-hour fire rating
41. When an equipment grounding conductor is installed with an underground circuit to a dairy, the equipment grounding conductor is required to be ___.
   I. copper       II. insulated
   a. II only     b. both I & II   c. neither I nor II   d. I only

42. Where a permanently installed pool is installed at a dwelling unit, at least one 125-volt, 15- or 20-ampere receptacle on a general-purpose branch circuit shall be located a minimum of ___ feet from and not more than ___ feet from the inside wall of the pool.
   a. 5          10  b. 6       20  c. 8       15  d. 8       20  e. 3       6

43. Two-wire DC circuits and AC circuits of two or more ungrounded conductors shall be permitted to be tapped from the ungrounded conductors of circuits having ___.
   a. a properly sized tap conductor   c. a balanced neutral system
   b. less than 50 volts               d. a grounded neutral conductor

44. A previously unwired portion of an existing residence or a structural addition to an existing residence, either of which exceeds ___ square feet, shall be computed in accordance with sections 220.12 and 220.14.
   a. 100          b. 250       c. 300       d. 500

45. Receptacles shall be mounted not less than ___ inches above the deck surface of the pier and not below the electrical datum plane on a fixed pier in a marina.
   a. 6          b. 12       c. 18       d. 24

46. A branch circuit is supplying a single hermetic refrigerant motor-compressor for an air conditioning unit. The hermetic refrigerant motor-compressor rated-load current is 18 amperes. If a 30-ampere fuse will not start the motor-compressor, the maximum rating of the branch-circuit short-circuit and ground-fault protective device may be increased to ___.
   a. 35 amps  b. 40 amps  c. 45 amps  d. 50 amps

47. Duty on escalator and moving walk driving machine motors shall be rated as ___.
   a. continuous   b. periodic   c. varying   d. short-time   e. intermittent

48. After being disconnected from the source of supply, the residual voltage of a capacitor operating at 600 volts or less, shall be reduced to ___ volts, nominal, or less within 60 seconds.
   a. 24          b. 30       c. 50       d. 100

49. For AC adjustable voltage, variable torque drive motors, the ampacity of conductors, or ampere ratings of switches, circuit breakers, or fuses, and ground-fault protection shall be based on the operating current marked on the nameplate. If the current does not appear on the nameplate, the ampacity determination shall be based on ___ of the values given in tables 430.249 and 430.250.
   a. 80%        b. 100%      c. 125%      d. 150%

50. When a calculation results in a fraction of an ampere of ___ or more, the NEC® permits “rounding up” to the next ampere.
   a. 0.49        b. 0.50      c. 0.51      d. none of these

51. Duty on elevator driving machine motors shall be rated as ___.
   a. noncontinuous   b. intermittent   c. periodic   d. varying

52. In exhibition halls used for display booths, as in trade shows, the temporary wiring shall be permitted to be installed in accordance with Article ___.
   a. 525        b. 300       c. 700       d. 590       e. 520
MULTIPLE CHOICE

1. ANS: A
   2011 NEC: 550.10(A) & (B) & (C)
   PTS: 1 REF: 2011 NEC: 550.10(A) & (B) & (C) OBJ: Obj 428.2 Worksheet
   NAT: Obj 428.2 ABank

2. ANS: A
   2011 NEC: 695.6(B)(1)
   PTS: 1 REF: 2011 NEC: 695.6(B)(1) OBJ: Obj 429.1 Worksheet
   NAT: Obj 429.1 ABank

3. ANS: B
   2011 NEC: T. 110.28
   PTS: 1 REF: 2011 NEC: T. 110.28 OBJ: Obj 430.1 Worksheet
   NAT: Obj 430.1 ABank

4. ANS: B
   2011 NEC: 620.4
   PTS: 1 REF: 2011 NEC: 620.4 OBJ: Obj 429.1 Worksheet
   NAT: Obj 429.1 ABank

5. ANS: A
   Gen Knowledge Ugly's/Ferm's
   PTS: 1 REF: Gen Knowledge OBJ: Obj 430.1 Worksheet
   NAT: Obj 430.1 ABank
   MSC: EPS Dwg: IN-Y

6. ANS: B
   2011 NEC: 250.68(A) Exc 1; 250.68(B)
   PTS: 1 REF: 2011 NEC: 250.68(A) Exc 1; 250.68(B) OBJ: Obj 429.3 Worksheet
   NAT: Obj 429.3 ABank

7. ANS: D
   2011 NEC: 555.19(A)(4)(a)
   PTS: 1 REF: 2011 NEC: 555.19(A)(4)(a) OBJ: Obj 428.2 Worksheet
   NAT: Obj 428.2 ABank

8. ANS: A
   2011 NEC: 553.4
   PTS: 1 REF: 2011 NEC: 553.4 OBJ: Obj 428.2 Worksheet
   NAT: Obj 428.2 ABank

9. ANS: D
   2011 NEC: 240.21(B)(2)
   PTS: 1 REF: 2011 NEC: 240.21(B)(2) OBJ: Obj 429.1 Worksheet
   NAT: Obj 429.3 ABank

10. ANS: C
    2011 NEC: 392.2
PTS: 1 REF: 2011 NEC: 392.2 OBJ: Obj 429.4 Worksheet
NAT: Obj 429.4 ABank

11. ANS: C
2011 NEC: 590.3(B)

PTS: 1 REF: 2011 NEC: 590.3(B) OBJ: 428 NEC Worksheet
NAT: 428 NEC ABank

12. ANS: E
   Capacitor: \( \frac{25000}{(480 \times 1.732)} = 30.1 \text{ amps} \)  
   \( 30.1 \times 1.35 = 40.6 \text{ amps or 8 AWG} \)
   Motor: \( 124 \times 1.25 = 155 \text{ amps} \)
   T.316.16: 2/0 @ 175 amps \( 175/3 = 58.3 \text{ amps} \) \( \Rightarrow \) 6 AWG

   2011 NEC: 460.8(A); 430.250; 430.22; 310.15(B)(16)

PTS: 1 REF: 2011 NEC: 460.8(A); 430.250; 430.22; 310.15(B)(16)
NAT: Obj 430.2 ABank

13. ANS: D
2011 NEC: 625.18

PTS: 1 REF: 2011 NEC: 625.18 NAT: Obj 428.3 ABank

14. ANS: D
205.4 \(-\) 120 = 85.4 \(3 \text{kVA} \) \( @ 100\% = 3.00\)
   \(117 \text{kVA} \) \( @ 35\% = 40.95\)
   \(85.4 \text{kVA} \) \( @ 25\% = 21.35\)

   65.3 \(\text{kVA}\)

   2011 NEC: T.220.42

PTS: 1 REF: 2011 NEC: T.220.42 OBJ: Obj 431.1 Worksheet
NAT: Obj 431.1 ABank

15. ANS: C
2011 NEC: 392.18(E)

PTS: 1 REF: 2011 NEC: 392.18(E) OBJ: Obj 429.4 Worksheet
NAT: Obj 429.4 ABank

16. ANS: C
2011 NEC: 545.2

PTS: 1 REF: 2011 NEC: 545.2 OBJ: Obj 428.2 Worksheet
NAT: Obj 428.2 ABank

17. ANS: D
2011 NEC: 550.10(D)

PTS: 1 REF: 2011 NEC: 550.10(D) NAT: Obj 428.2 ABank

18. ANS: D
2011 NEC: 600.6(B)

PTS: 1 REF: 2011 NEC: 600.6(B) OBJ: Obj 428.3 Worksheet
NAT: Obj 428.3 ABank

19. ANS: A
2011 NEC: 600.3

PTS: 1 REF: 2011 NEC: 600.3 OBJ: Obj 428.3 Worksheet
NAT: Obj 428.3 ABank
20. **ANS:** B
   **2011 NEC:** 426.28
   **PTS:** 1  **REF:** 2011 NEC: 426.28  **OBJ:** Obj 429 NEC Worksheet  
   **NAT:** 429 NEC ABank

21. **ANS:** C
   **2011 NEC:** Fig. 680.8 & T. 680.8
   **PTS:** 1  **REF:** 2011 NEC: Fig. 680.8 & T. 680.8  **OBJ:** Obj 429.2 Worksheet  
   **NAT:** Obj 429.2 ABank

22. **ANS:** D
   **2011 NEC:** 392.10(B)(1)(c)
   **PTS:** 1  **REF:** 2011 NEC: 392.10(B)(1)(c)  **OBJ:** Obj 429.4 Worksheet  
   **NAT:** Obj 429.4 ABank

23. **ANS:** A
   **2011 NEC:** 427.55(B)
   **PTS:** 1  **REF:** 2011 NEC: 427.55(B)  **OBJ:** Obj 429 NEC Worksheet  
   **NAT:** 429 NEC ABank

24. **ANS:** C
   **2011 NEC:** No mention was made in the statement to satisfy the requirements of 520.44(B)(2). Therefore, Table 520.44 can not be used.  
   **PTS:** 1  **REF:** 520.44(C)(1) & 400.5  **OBJ:** Obj 428.1 Worksheet  
   **NAT:** Obj 428.1 ABank

25. **ANS:** A
   **2011 NEC:** 240.21(B)(3)(1)
   **PTS:** 1  **REF:** 240.21(B)(3)(1)  **OBJ:** Obj 429.3 Worksheet  
   **NAT:** Obj 429.3 ABank

26. **ANS:** C
   **2011 NEC:** 551.2
   **PTS:** 1  **REF:** 551.2  **OBJ:** Obj 428.2 Worksheet  
   **NAT:** Obj 428.2 ABank

27. **ANS:** B
   **2011 NEC:** 392.30(B)(3)
   **PTS:** 1  **REF:** 392.30(B)(3)  **OBJ:** Obj 429.4 Worksheet  
   **NAT:** Obj 429.4 ABank

28. **ANS:** C
   **2011 NEC:** 430.2
   **PTS:** 1  **REF:** 430.2  **OBJ:** Obj 430.1 Worksheet  
   **NAT:** Obj 430.1 ABank

29. **ANS:** D
   **2011 NEC:** 590.4(C)&(H)
   **PTS:** 1  **REF:** 590.4(C)&(H)  **OBJ:** 428 NEC Worksheet  
   **NAT:** 428 NEC ABank

30. **ANS:** D
2011 NEC: 550.32(A)

PTS: 1  REF: 2011 NEC: 550.32(A)  OBJ: Obj 428.2 Worksheet
NAT: Obj 428.2 ABank

31. ANS: D
2011 NEC: 547.8(A)

PTS: 1  REF: 2011 NEC: 547.8(A)  NAT: Obj 428.2 ABank

32. ANS: D
2011 NEC: 460.2(B)

PTS: 1  REF: 2011 NEC: 460.2(B)  NAT: Obj 430.2 ABank

33. ANS: C
2011 NEC: 551.71

PTS: 1  REF: 2011 NEC: 551.71  OBJ: Obj 428.2 Worksheet
NAT: Obj 428.2 ABank

34. ANS: D
2011 NEC: 426.2

PTS: 1  REF: 2011 NEC: 426.2  OBJ: Obj 429 NEC Worksheet
NAT: 429 NEC ABank

35. ANS: C
2011 NEC: 518.2(B)

PTS: 1  REF: 2011 NEC: 518.2(B)  OBJ: Obj 428.1 Worksheet
NAT: Obj 428.1 ABank

36. ANS: A
2011 NEC: 240.85

PTS: 1  REF: 2011 NEC: 240.85  OBJ: Obj 429.3 Worksheet
NAT: Obj 429.3 ABank

37. ANS: C
2011 NEC: 455.9

PTS: 1  REF: 2011 NEC: 455.9  NAT: Obj 430.2 ABank

38. ANS: B
2011 NEC: 520.21

PTS: 1  REF: 2011 NEC: 520.21  NAT: Obj 428.1 ABank

39. ANS: A
2011 NEC: 625.29(B)

PTS: 1  REF: 2011 NEC: 625.29(B)  OBJ: Obj 428.3 Worksheet
NAT: Obj 428.3 ABank

40. ANS: D
2011 NEC: 695.6(A)(2)(d)

PTS: 1  REF: 2011 NEC: 695.6(A)(2)(d)  OBJ: Obj 429.1 Worksheet
NAT: Obj 429.1 ABank

41. ANS: B
2011 NEC: 547.5(F)
PTS: 1
REF: 2011 NEC: 547.5(F)
OBJ: Obj 428.2 Worksheet
NAT: Obj 428.2 ABank
42. ANS: B
2011 NEC: 680.22(A)(3)
PTS: 1
OBJ: Obj 429.2 Worksheet
NAT: Obj 429.2 ABank
43. ANS: D
2011 NEC: 210.10 & 215.7
PTS: 1
OBJ: Obj 429.3 Worksheet
NAT: Obj 429.3 ABank
44. ANS: D
2011 NEC: 220.16(A)(1)
PTS: 1
REF: 2011 NEC: 220.16(A)(1)
OBJ: Obj 431.1 Worksheet
NAT: Obj 431.1 ABank
45. ANS: B
2011 NEC: 555.19
PTS: 1
REF: 2011 NEC: 555.19
NAT: Obj 428.2 ABank
46. ANS: B
18 × 2.25 (225%) = 40.5 amps
Have to round down to 40 amp fuses
2011 NEC: 440.22(A) & 240.6(A)
PTS: 1
REF: 2011 NEC: 440.22(A) & 240.6(A)
NAT: Obj 430.2 ABank
47. ANS: A
2011 NEC: 620.61(B)(2)
PTS: 1
REF: 2011 NEC: 620.61(B)(2)
OBJ: Obj 429.1 Worksheet
NAT: Obj 429.1 ABank
48. ANS: C
2011 NEC: 460.6(A)
PTS: 1
REF: 2011 NEC: 460.6(A)
NAT: Obj 430.2 ABank
49. ANS: D
2011 NEC: 430.6(C)
PTS: 1
REF: 2011 NEC: 430.6(C)
NAT: Obj 430.1 ABank
50. ANS: B
2011 NEC: 220.5(B)
PTS: 1
REF: 2011 NEC: 220.5(B)
OBJ: Obj 431.1 Worksheet
NAT: Obj 431.1 ABank
51. ANS: B
2011 NEC: 620.61(B)(1)
PTS: 1
REF: 2011 NEC: 620.61(B)(1)
OBJ: Obj 429.1 Worksheet
NAT: Obj 429.1 ABank
52. ANS: D
2011 NEC: 518.3(B)

PTS: 1  REF: 2011 NEC: 518.3(B)  OBJ: Obj 428.1 Worksheet
NAT: Obj 428.1 ABank