Name: _____

Date: _____ Grade: _____

Character and Skills for Home and Careers

CHAPTER 4 TEST

Congratulations on completing this chapter! ***Answer the following questions to test your understanding of the material. When you finish, hand in your test to your teacher for a final grade. Each answer is worth 2.1 points.***

1. Working on a house where people live, is called a _____-type job.
2. Commercial-type electrical jobs refer to those dealing with: _____ _____.
   (a) houses where people live
   (b) businesses that buy/sell goods and services
   (c) factories that produce/sell goods and services
   (d) road and bridge construction sites
3. An apprentice electrician is one who: _____.
   (a) works under the direction of a journeyman
   (b) learns a trade by himself
   (c) is self taught
   (d) only studies the trade in book
4. _____ represents the force or pressure of electric current.
5. The flow of electricity can be compared to the flow of water. _____
   (a) True or (b) False
6. An electrical switch interrupts the flow of current in a circuit. _____
   (a) True or (b) False
7. Electricity is created by: _____.
   (a) motors (b) air (c) generators (d) metallic elements
8. The purpose of circuit breakers is to keep an electrical malfunction from causing a(n): _____.
   (a) noise (b) shock (c) fire (d) injury
9. _____ should be administered to an unconscious person who shows no signs of breathing.
10. Cardio-Pulmonary Resuscitation is defined as reviving a person's: _____.
    (a) heart and brain (c) lungs and liver
    (b) brain and lungs (d) heart and lungs

11. When a circuit breaker trips, it: _____.
    (a) breaks the flow of current in the circuit
    (b) fall over something
    (c) automatically resets itself
    (d) goes to another location

12. A blown fuse or tripped circuit breaker should be reset repeatedly until it stays on.
    _____ (a) True or (b) False

13. The best method to save someone from electrical shock is to: _____
    _____.
    (a) knock the person off the wire
    (b) shut off the electrical current at the main breaker
    (c) use a wet rope to drag the person to safety
    (d) hold someone else's hand and grab the victim

14. Apprentices are placed with experienced electricians to: _____.
    (a) make them nervous
    (b) drive the truck and serve as 'gofers'
    (c) make sure the apprentice does not do something dangerous
    (d) be sure the electrician is not lonely

15. Wire is sized by: _____.
    (a) inches (b) feet (c) gauge (d) length

16. The black wire is always: _____.
    (a) 'hot' (b) 'cold' (c) neutral (d) negative

17. The _____ wire is usually the neutral wire.

18. You can always depend on the color of the wire to identify "hot" and "neutral" wires.
    _____ (a) True or (b) False

19. To protect yourself from shock, you should always: _____.
    (a) touch the wire with the back of your hand
    (b) check to see if the circuit is "open" by using a voltage tester
    (c) disregard the color of the wires
    (d) turn loose of the wire quickly if it is "hot"

20. Plastic outlet boxes are the most expensive type of box. _____
    (a) True or (b) False

21. The ceiling fixture box was positioned ½ inch below a 2" x 4" ceiling joist
    because: _____.
    (a) it was too large to fit otherwise
    (b) it would be easier to connect the light fixture later
    (c) it would allow the Sheetrock to be flush
    (d) it is better if the box is lower

22. Switch boxes are installed _____ above the floor.
(a) 2 feet (b) 3 feet (c) 4 feet (d) 1 foot

23. The "ground" on the receptacle is there to prevent electrical shock in case of a short in the circuit. _____ (a) True or (b) False

24. A switch is always installed on the _____ wire or 'hot' side of the circuit.

25. Electricians need at least _____ inches of wire to protrude from each outlet box when installing circuits.

26. To strip a wire, one would _____ the outer covering of the wire.

27. When speaking of wires, insulation refers to: _____.
(a) pink fiberglass
(b) the protective covering of the wire
(c) complete isolation of the wires
(d) covering to keep the the wire warm

28. The different sizes of plastic connectors for covering spliced wires are determined by _____.

29. An older experienced person is sometimes referred as a _____.

30. Black or red (hot) wires are always connected to the _____ terminal.
(a) silver (b) brass (c) green (d) ground

31. White or neutral wires are always connected to the _____ terminal.
(a) silver (b) brass (c) green (d) ground

32. The ABCs of CPR stand for the proper order in which a rescuer administers help to a person who is not breathing. This means: _____
(a) Action-Brain-Carotid artery (c) Airway-Brain-Circulation
(b) Airway-Brain-Carotid artery (d) Airway-Breathing-Circulation

33. If a white wire is used as the "hot" wire, it must be _____ by putting some black tape on it.

34. An electric booster station found inside a fluorescent fixture is a: _____.
(a) generator (b) transformer (c) ballast (d) bulb

35. A watt is a unit of measure that represents a unit of: _____.
(a) movement (b) current (c) power (d) distance

36. Amperage represents current strength or rate of _____.

37. If there were 3200 watts and 10 amps in a circuit, the voltage would be _____.

38. If a 120 volt circuit had 20 amps flowing, the watts would be _____.

39. Use of bulbs of higher wattage than recommended for fixtures can cause _____.

40. In a "Y" shaped 240-volt receptacle, the _____ wire always goes to the bottom of the "Y".

41. A _____ wire is connected to the neutral bus bar.

42. A "bus-bar" is a(n) electrical conductor used to distribute electrical currents. _____
(a) True or (b) False

43. The green wire is connected to the _____ bus bar.

Choose the best meaning for each Life Principle and write the letter of the response on the blank.

44. *"Learn by experience— preferably other people's."* _____
(a) We should take notice of what happens to others and learn.
(b) All learning comes by experience.
(c) All experience comes by learning.
(d) Experience and learning are opposites.

45. *"He who has learned how to obey will know how to command."* _____
(a) To obey is everyone's responsibility.
(b) In order to be a good leader, you must know how to follow.
(c) We should command others to obey.
(d) Commanding and obeying are not related to each other.

46. *"Conquer yourself rather than the world."* _____
(a) Conquering is a great endeavor.
(b) The world needs to be conquered.
(c) Gain control of yourself instead of trying to control others.
(d) Conquer yourself rather than the world conquering you.

47. *"Everything comes to him who hustles while he waits."* _____
(a) Everyone should be a hustler.
(b) Working while we wait for a thing speeds its arrival to us.
(c) Hustling and waiting are the same thing.
(d) Everything will come to us if we will wait long enough.

48. *"Every job is a self portrait of the person who does it. Autograph your work with excellence."* _____
(a) Every self portrait should be autographed.
(b) Rendering a self portrait is a difficult job.
(c) A excellent portrait should bear the signature of the artist who rendered it.
(d) The work we do should be of excellent quality, because our work reflects our character.