# *Electricity and Electronics 11th edition Gerrish Test Bank*

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# Chapter 1 Safety

## MULTIPLE CHOICE

1. A grounded device has a ____ potential.
   A. 0-volt
   B. 3-volt
   C. 10-volt
   D. 25-volt

   ANS: A PTS: 1

2. What effect will an electric shock involving a current of 15 mA have?
   A. Slight tingling
   B. Pain with sustained muscle contraction
   C. Paralysis of respiratory muscles
   D. Cardiac arrest and internal organ damage

   ANS: B PTS: 1

3. The NEC requires all electrical systems of ____ or higher to be grounded.
   A. 10 volts
   B. 50 volts
   C. 75 volts
   D. 100 volts

   ANS: B PTS: 1

4. Which room in a dwelling is most likely to require ground-fault circuit protection?
   A. Bedroom
   B. Living room
   C. Dining room
   D. Bathroom

   ANS: D PTS: 1

5. What is the device in this image used for?



   A. To prevent someone from turning a machine on during maintenance
   B. To measure voltage

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C. To prevent electrostatic discharge
D. To safely remove insulation surrounding a wire

ANS: C PTS: 1

6. A ____ is commonly used to tighten and loosen bolts.
A. screwdriver
B. wire stripper
C. hammer
D. wrench

ANS: D PTS: 1

7. A screw is an example of a ____.
A. power tool
B. fastener
C. drill bit
D. chuck

ANS: B PTS: 1

8. Most employers restrict their employees to a maximum lift of ____ pounds.
A. 20
B. 35
C. 50
D. 75

ANS: C PTS: 1

9. Which type of ladder is recommended when working around electricity?
A. Fiberglass
B. Stainless steel
C. Wooden
D. Aluminum

ANS: A PTS: 1

10. OSHA recommends that when using an extension ladder, it be positioned so that it extends at least ____ past the point of contact on the structure.
A. 2 feet
B. 3 feet
C. 4 feet
D. 6 feet

ANS: B PTS: 1

11. What is the purpose of a driver screen in a work van?
A. To reduce the brightness of the sunlight passing through the windshield
B. To verify that the driver has been authorized to operate the vehicle
C. To release any static buildup on the driver's body
D. To protect the driver from falling equipment

ANS: D PTS: 1

12. Which type of fire extinguisher should be used on a grease fire?
A. Class A

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B. Class B
C. Class C
D. Class K

ANS: D PTS: 1

13. How long should you flush the eyes when using an emergency eyewash station?
A. No more than 30 seconds
B. 2 to 3 minutes
C. At least 15 minutes
D. At least 25 minutes

ANS: C PTS: 1

14. Which organization produces the National Electrical Code?
A. National Fire Protection Agency (NFPA)
B. Underwriters Laboratories (UL)
C. Occupational Safety and Health Administration (OSHA)
D. National Electrical Contractors Association (NECA)

ANS: A PTS: 1

15. The first section on a safety data sheet provides which information?
A. Chemical ingredients of the product
B. Restrictions on use of the product
C. Emergency procedures in the event of accidental release
D. Potential ecological impacts of the chemical

ANS: B PTS: 1

**TRUE/FALSE**

16. A minimum ground fault current can be in excess of 10,000 amps.

ANS: T PTS: 1

17. A resistance path from hand to hand will be higher than from hand to foot.

ANS: F PTS: 1

18. Non-GFCI power outlets can be used with a single GFCI-style circuit breaker.

ANS: T PTS: 1

19. Static discharge occurs when two objects are at the same static voltage level.

ANS: F PTS: 1

20. An antistatic wrist strap should be worn when working on an energized circuit.

ANS: F PTS: 1

21. An antistatic mat should be used when working on an antistatic workbench.

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ANS: F PTS: 1

22. Best practices recommend that you lift with your back.

ANS: F PTS: 1

23. A resistor can remain dangerously hot after the power is turned off.

ANS: T PTS: 1

24. A water extinguisher is appropriate for use on a Class B fire.

ANS: F PTS: 1

25. The goal of CPR is to provide oxygen to the brain until paramedics arrive to take over.

ANS: T PTS: 1

**COMPLETION**

26. Insulated _____ gloves are worn inside leather protector gloves to provide protection from electric shock.

ANS: rubber

PTS: 1

27. Class 1 gloves have a(n) _____ label.

ANS: white

PTS: 1

28. If a cable must be laid across a pathway, and the pathway cannot be blocked, the cable should be taped to the floor with _____ tape.

ANS: duct

PTS: 1

29. The size of a power drill is based on the maximum diameter of the _____.

ANS: chuck

PTS: 1

30. A Class _____ fire extinguisher is designed to be used on fires involving energized electrical equipment.

ANS: C

PTS: 1

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**MATCHING**

*Match each term with its corresponding description.*

A. Electrical fault
B. Electrical shock
C. Grounding
D. Ground-fault circuit interrupter
E. Lockout-tagout
F. Personal protective equipment
G. Safety data sheet

31. Prevents accidental startup of a machine or system while maintenance is being done
32. Provides a safe path for fault current
33. Discharge of electrical current passing through your body
34. Abnormal surge in electrical current
35. Examples include earplugs, gloves, and safety glasses

31. ANS: E PTS: 1
32. ANS: C PTS: 1
33. ANS: B PTS: 1
34. ANS: A PTS: 1
35. ANS: F PTS: 1

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