

Test Bank for Electricity and Electronics 11th Gerrish

TEST BANK SAMPLE PREVIEW

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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

- 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

- 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.

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

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 |