

CSEE 201 QUIZ

Name: _____

Safety Quiz

Date: _____

1. Whenever you work with power tools, electronic equipment, or on electrical circuits there is a risk of electrical hazards, especially electrical shock.
 - ☐ True
 - ☐ False
2. An electrical shock is received when electrical current passes through the body.
 - ☐ True
 - ☐ False
3. You will receive a shock if you touch two wires at different voltage potentials at the same time.
 - ☐ True
 - ☐ False
4. In most household wiring, the black wires and the red wires are at 120 volts. The white wires are at 0 volts because they are connected to ground.
 - ☐ True
 - ☐ False
5. *Conductor* — is a material in which an electrical current moves easily.
 - ☐ True
 - ☐ False
6. *Circuit* — is a complete path for the flow of current.
 - ☐ True
 - ☐ False

7. *Energized* — “hot” or “live” are similar terms meaning that a voltage is present that can cause a current to flow.
- ☐ True
 - ☐ False
8. *Neutral* — at ground potential (0 volts).
- ☐ True
 - ☐ False
9. You will receive a shock if you touch a live wire and are grounded at the same time.
- ☐ True
 - ☐ False
10. Any electronic equipment which is energized by 120 volts is a potential shock hazard.
- ☐ True
 - ☐ False
11. If you are in contact with a live wire or any live component of an energized electrical circuit—and also in contact with any grounded object—you will receive a shock.
- ☐ True
 - ☐ False
12. The severity of injury from electrical shock depends on the *amount* of electrical current, the *length of time* the electrical current passes through the body, and the *path* of the electrical current.
- ☐ True
 - ☐ False
13. 6–30 milliamperes — Painful shock. Muscular control is lost. This is the range where “freezing currents” start. It may not be possible to “let go.”
- ☐ True
 - ☐ False
14. 1–4.3 Amperes — Ventricular fibrillation (heart pumping action not rhythmic) occurs. Muscles contract; nerve damage occurs. Death is likely.
- ☐ True

☐ False

15. 10 Amperes — Cardiac arrest and severe burns occur. Death is probable.

☐ True

☐ False

16. High voltages can cause violent muscular contractions. Muscle contractions may cause bone fractures from either the contractions themselves or from falls.

☐ True

☐ False

17. Some injuries from electrical shock cannot be seen.

☐ True

☐ False

18. Currents across the chest are very dangerous.

☐ True

☐ False

19. The low resistance of wet skin allows current to pass into the body more easily and give a greater shock.

☐ True

☐ False

20. Wet clothing, high humidity, and perspiration also increase your chances of being electrocuted.

☐ True

☐ False

21. Shut off the electrical current if the victim is still in contact with the energized circuit.

☐ True

☐ False

22. Do not touch the victim yourself if he or she is still in contact with a live electrical circuit.

☐ True

☐ False

23. Call 911 to report the incident and ask for Emergency assistance.

- ☐ True
- ☐ False

24. You should stay with the victim while Emergency Medical Services (EMS) is contacted.

- ☐ True
- ☐ False

25. If the victim is not breathing and you are trained in CPR, you should administer CPR until Emergency Medical Services (EMS) arrives.

- ☐ True
- ☐ False

26. Time is important for the victim, remain calm, and execute your emergency procedures.

- ☐ True
- ☐ False

27. Know where the circuit breakers, fire extinguishers, emergency medical kits, emergency telephones are located.

- ☐ True
- ☐ False

28. "C" Class fire extinguishers should be used for an electrical fire.

- ☐ True
- ☐ False

29. To avoid injury or death, you must understand and recognize hazards. You need to evaluate the situation you are in and assess your risks. You need to control hazards by creating a safe work environment, by using safe work practices, and by reporting hazards to a supervisor or teacher.

- ☐ True
- ☐ False

30. What must I do to be safe?

- a. Identify any potential electrical hazards.
- b. Don't listen to reckless, dangerous people.
- c. Evaluate your risk.
- d. Take steps to control hazards:
- e. Create a safe workplace.
- f. Work safely.

g. All of the above