

Zap! Magazine, Electricity and Natural Gas

Pre/Post Test

Directions: Circle the correct answer.

1. A machine that can restart the heart with an electric shock is called
a) a generator b) a turbine c) a defibrillator d) an engine
2. True or false: A fallen power line can shock you even if it is not sparking or humming.
a) true b) false
3. Electricity is made up of
a) air bubbles b) electrons c) dirt d) sulfur
4. Which of these is not a safe thing to do if you smell gas and an adult is not home?
a) get everyone out of the house c) go to a pay phone or neighbor's to call the gas company
b) light a candle
5. This chemical, which smells like rotten eggs, is added to natural gas so people will know when there is a gas leak.
a) asbestos b) sulfur c) magnesium d) mercaptan
6. What percent of the human body is made up of water?
a) 25 b) 50 c) 70 d) 90
7. To prevent serious injury, a ground fault circuit interrupter (GFCI) stops the flow of
a) gas b) electricity c) air d) water
8. You could be shocked by electricity if you
a) contact a bare wire c) touch a fallen power line
b) use a faulty appliance d) any of the above
9. Which of these is a safe thing to do?
a) use GFCI outlets near water c) use appliances that have worn or frayed wires
b) overload outlets d) pile up things near electric or gas heaters
10. Which of these is not a safe thing to do during an electrical storm?
a) stay in your hardtop car c) keep away from trees, tall objects, or anything metal
b) swim outside d) stay inside your house and do not use anything electrical

11. Why is it important to call your local utility before digging in the ground near your home?
- a) to avoid hitting buried gas pipelines and other utilities
 - b) to find out what to do with the dirt
 - c) to ask what size shovel to use
 - d) to get a treasure map
12. Which of the following is not a sign of an outdoor gas leak?
- a) a hissing sound
 - b) a smell of rotten eggs
 - c) a smell like fresh paint
 - d) plants that seem to be dying for no reason

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Pre/Post Test Answer Key

Information that relates to each question can be found on the pages listed below.

1. c) a defibrillator. Page 3
2. a) true. Page 5
3. b) electrons. Page 6
4. b) light a candle. Page 7
5. d) mercaptan. Page 7
6. c) 70. Page 8
7. b) electricity. Page 10
8. d) any of the above. Page 11
9. a) use GFCI outlets near water. Page 12
10. b) swim outside. Page 14
11. a) to avoid hitting buried electric lines or gas pipelines. Page 6
12. c) a smell like fresh paint. Page 7