

Physics

Unit 4 Assessment

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Choose the correct answer:

1. Which phenomena cannot be explained by the kinetic theory?
  - a) Solids, liquids and gasses.
  - b) Temperature of a body.
  - c) Lightning and compasses.
  - d) Pressure.
  
2. Which model did Thompson propose?
  - a) The chemical atom.
  - b) The planetarium model.
  - c) The quantum model.
  - d) The plum pudding model.
  
3. Electric charges from the same polarity:
  - a) Repel each other.
  - b) Attract each other.
  - c) Like each other.
  - d) Are the same size.
  
4. If you break a magnet in halves, you get:
  - a) A magnetic pole in one and the opposite one in the other.
  - b) Two halves that no longer work as a magnet.
  - c) Two magnets, each one with two charges.
  - d) Two electric charges.
  
5. What charge does a proton have?
  - a) Positive.
  - b) Negative.
  - c) Neutral.
  - d) A lot.
  
6. The electron mass:
  - a) Equals the proton one.
  - b) 2000 times lower than the proton.
  - c) 10 times more than the proton.
  - d) 7.4 times the proton mass.
  
7. Which of the following electromagnetic waves has lower frequency?
  - a) Radio.
  - b) Green color.

- c) X rays.
  - d) Gamma rays.
8. Which of the following electromagnetic waves has more wavelengths?
- a) Radio.
  - b) Green color.
  - c) X rays.
  - d) Gamma rays.
9. What is the cause of magnetism?
- a) Magnetosphere.
  - b) Temperature.
  - c) Electric charges.
  - d) Magnetite.
10. What is voltage?
- a) The amount of electric charge per second.
  - b) Volts.
  - c) The electric potential that each charge has.
  - d) The potential of a battery.
11. Which particle did Rutherford discover?
- a) Electron.
  - b) Neutron.
  - c) Neutrino.
  - d) Proton.
12. The magnetic field unit is the:
- a) Watt.
  - b) Ampere.
  - c) Volt.
  - d) Tesla.
13. En general, a wave has more energy if:
- a) It has lower frequency.
  - b) It has more wavelengths.
  - c) It has more periods.
  - d) It has more frequency.
14. If in a 10 ohms resistance circuit there is one ampere current, how much was the voltage?
- a) 10 volts.
  - b) 5 volts.
  - c) 1 volt.
  - d) 0 volts.

15. The fact that a material be insulating means:
- Charges can move freely in it.
  - It is hard and smooth.
  - It easily heats.
  - Charges cannot move a lot in it.
16. Light is:
- Electrons traveling.
  - Moving protons.
  - An electromagnetic wave.
  - A color.
17. The Dalton atom:
- Can be divided without losing its chemical properties.
  - Cannot be divided.
  - It can be divided, but the chemical properties are lost.
  - It has negative charge.
18. What model of matter did Bohr propose?
- The planetarium atom.
  - The quantum atom.
  - The neon atom.
  - The plum pudding.
19. The refraction phenomenon explains:
- That rays bend in mirrors.
  - That we look at a distorted straw when it is inside a glass of water.
  - That there are colors we cannot see.
  - That light travels in space.
20. Which of the following electromagnetic waves has more energy?
- Radio.
  - Infrared.
  - Blue color.
  - Ultraviolet.

Physics  
Unit 4 Assessment Answer Key

1. c
2. d
3. a
4. c
5. a
6. b
7. a
8. a
9. c
10. c
11. d
12. d
13. d
14. a
15. d
16. c
17. c
18. b
19. b
20. d