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Exam Final Science Physical الملف

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Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Unit 1 Final Exam

#### Multiple Choice Questions

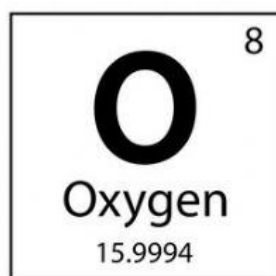
*Identify the letter of the choice that best completes the statement or answers the question.*

- \_\_\_ 1. Density is equal to \_\_\_\_\_.  
a. volume divided by mass    c. mass divided by volume  
b. volume times mass    d. mass times volume
- \_\_\_ 2. For most substances, the distance between particles is smallest when the substance \_\_\_\_\_.  
a. exists as a gas    b. exists as a plasma  
c. exists as a solid    d. exists as a liquid
- \_\_\_ 3. Aspartame is an artificial sweetener; its' formula is  $C_{13}H_{16}N_2O_5$ . Which element in the formula has the largest number of atoms?  
a. carbon    b. oxygen  
c. hydrogen    d. nitrogen
- \_\_\_ 4. When you measure something in meters cubed ( $m^3$ ), you are measuring \_\_\_\_\_.  
a. volume    b. area  
c. mass    d. length
- \_\_\_ 5. All of the following are examples of physical changes, EXCEPT \_\_\_\_\_.  
a. burning    b. evaporating  
c. solidifying    d. Melting

- \_\_\_ 6. The particles that make up an atom are \_\_\_\_.
- a. elements, protons, and electrons
  - b. protons, neutrons, and electrons
  - c. electrons, protons, and nuclei
  - d. protons, neutrons, and nuclei
- \_\_\_ 7. The maximum number of electrons in the second energy level of an atom is \_\_\_\_.
- a. four            b. two
  - c. ten             d. eight
- \_\_\_ 8. All of the following are a state of matter EXCEPT \_\_\_\_.
- a. density        b. gas
  - c. liquid         d. solid
- \_\_\_ 9. A prediction about a problem that can be tested is a(n) \_\_\_\_.
- a. hypothesis            b. control
  - c. dependent variable    d. independent variable
- \_\_\_ 10. The main branches of natural science are
- a. physics and chemistry.    b. life, physical, and earth science.
  - c. medicine and agriculture.    d. biology, zoology, and ecology.
- \_\_\_ 11. The SI unit for measuring temperature is the
- a. degree.            c. mole.
  - b. kelvin.            d. ampere.

- \_\_\_ 12. Matter is defined as anything that
- a. can be seen and touched.
  - b. has mass and takes up space.
  - c. can be weighed.
  - d. contains kinetic or potential energy.
- \_\_\_ 13. Which of the following is not an example of a physical property?
- a. freezing point
  - b. boiling point
  - c. reactivity
  - d. density
- \_\_\_ 14. Which of the following is an example of a chemical change?
- a. ice melting
  - b. paint fading
  - c. pounding gold into a coin
  - d. a puddle of water evaporating
- \_\_\_ 15. The charge of an electron is
- a. negative
  - b. no charge
  - c. neutral
  - d. positive

Use the picture below to answer questions 16-18.



- \_\_\_ 16. Which order is correct for protons, electrons, and neutrons?  
a. P:8, E:8, N:8    b. P:8, E:8, N:16    c. P:16, E:16, N:32
- \_\_\_ 17. How many valence electrons does Oxygen have?  
a. 8                  b. 6                  c. 16                  d. 2
- \_\_\_ 18. What is Oxygen's group name?  
a. Nobel Gases    b. Transition Metals    c. Carbon Family
- \_\_\_ 19. Which is a heterogeneous mixture?  
a. air                  b. a salad  
c. brass                  d. apple juice
- \_\_\_ 20. The lab tool that is used to protect the eyes are \_\_\_\_\_.  
a. Goggles    b. Lab coat    c. Gloves    d. Hair ties