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Exam Final Science Physical الملف

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Unit 1 Final Exam

Multiple Choice Questions

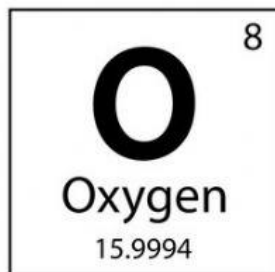
Identify the letter of the choice that best completes the statement or answers the question.

- ___ 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