$\qquad$ Class: $\qquad$ Date: $\qquad$

## Chapter 1 and 2 Test with lab equipment and hazards

1. This is a practice test to help you get ready for your first test.
2. You need to also go back and study your lecture notes, annotations and worksheets.
3. You will need your own pencil for the test.
4. I will not answer questions about the practice test after tutorials so you need to get your questions answered early.

## True/False

Indicate whether the statement is true or false.
$\qquad$ 1. The earth is an open system to matter.
2. Energy is input from the sun and radiates out into space.
3. Matter cycles between living and nonliving things.
4. New matter can reach the earth.

## Multiple Choice

Identify the choice that best completes the statement or answers the question.
$\qquad$ 5. Which of the following CANNOT be classified as a substance?
a. Gold
c. Nitrogen
b. Table Salt
d. Corrosion
$\qquad$ 6. Which of the following processes do NOT involve a change in chemical properties?
a. Boiling
c. Burning
b. Rusting
d. Fermenting
$\qquad$ 7. The left hand side of a reaction is called the:
a. Reactants
b. Products
8. The study of the composition and structure of matter is the domain of which field of science?
a. Biology
c. Physics
b. Chemistry
d. Geology
9. A mixture can either be:
a. Heterogeneous or Homogeneous
b. An element or a compound
10. All of the following changes to a metal are physical changes EXCEPT
a. Rusting
d. Bending
b. Cutting
e. Polishing
c. Melting
11. Matter is defined as anything that $\qquad$ .
a. has a definite volume.
c. can be weighed on a balance.
b. has mass and takes up space
d. has a fixed volume and weight
$\qquad$ 12. All of the following are physical properties of matter EXCEPT $\qquad$ .
a. melting Point
c. explosiveness
b. mass
d. luster
13. One difference between a mixture and a compound is that $\qquad$ .
a. a mixture must be uniform in composition
c. a mixture can only be separated into its components by chemical means
d. a compound is made up of more than one phase
b. a compound can only be separated into its components by chemical means
14. A friend observes a burning candle and comments that the matter is lost because the wax is gone as the candle burns. Your friend's comment is ...
a. True
b. False
15. Which of the following is true for all chemical reactions (law of conservation of mass)?
a. The mass of the products is less than the mass of the reactants
c. The mass of the products is equal to the mass of the reactants
b. The mass of the products is greater than the mass of the reactants
16. Which of the following is often easily separated into its components by techniques such as filtering or decanting?
a. Compounds
c. Heterogeneous mixture
b. Homogeneous mixture
d. Elements
17. Which law best describes that energy is neither created nor destroyed?
a. law of conservation of matter
b. law of thermodynamics
18. Which of the following materials is a pure substance?
a. Air
d. Hardness
b. Carbon
e. Color
c. Gasoline
19. Which of the following is a homogeneous mixture?
a. Raisin Bread
d. Beef Stew
b. Sand and water
e. Soil
c. Soda
20. Which of the following is NOT a pure substance?
a. Apple juice
c. Liquid Oxygen
b. Water
d. Liquid Helium
21. Which state of matter is characterized by having its particles spaced far apart?
a. Solid
c. Gas
b. Liquid
d. Bose-Einstein Condensate
22. Chemistry is chiefly concerned with the study of which of the following types of in substances?
a. Changes in Volume
d. Changes in Emotion
b. Changes in Shape
e. Changes in Location
c. Changes in Composition
23. Which state of matter is compressible?
a. Solid
d. Gas
b. Condensate
e. Colloid
c. Liquid
24. Sublimation is ...
a. a chemical change in which a solid changes to a gas
c. a physical change in which a liquid changes to a gas
d. a physical change in which a solid turns to a gas
b. a chemical change in which a liquid turns to a solid
25. Separating a solid from a liquid by evaporating the liquid is called $\qquad$ .
a. Condensation
c. Emulsification
b. Distillation
d. Theorizing
26. Which piece of equipment holds a crucible and lid over a flame?
a. ring stand
c. pipe stem triangle
b. ring clamp
d. buret clamp
27. Which of the following is a heterogeneous mixture?
a. nitrogen
c. steel
b. salt water
d. soil
28. What is the process when a gas changes into a liquid?
a. Sublimation
d. Melting
b. Evaporation
e. Elevation
c. Condensation
29. What is the proper name for this piece of lab equipment?
a. Test tube holders
c. Tongs
b. Tweezers
d. Forceps
30. We read a graduated cylinder from the bottom of the:
a. mensicus
b. water line
31. What piece of equipment holds various clamps?
a. Ring stand
c. Test tube clamp
b. Ring clamp
d. Pipe stem triangle

32. What is the correct name of this piece of lab equipment?
a. Scoopula
c. Pneumatic Trough
b. Funnel
d. Watch glass
33. Which of the following display kinetic energy?
a. sleeping
c. an apple on a tree
b. sitting on a bench
d. hiking up a hill
34. NaOH , sodium hydroxide, can be classified as:
a. an irritant
b. a corrosive chemical

## Multiple Response

Identify one or more choices that best complete the statement or answer the question.
$\qquad$ 35. Which of the following are mixtures?
a. Salt
c. Salad dressing
b. Water
d. Cereal
36. Which of the following are substances?
a. Helium
d. Diet Coke
b. Water
e. Mint Ice Cream
c. Carbon dioxide

## Chapter 1 and 2 Test with lab equipment and hazards

## Answer Section

## TRUE/FALSE

1. ANS: F PTS: 1
2. ANS: T PTS: 1
3. ANS: T PTS: 1
4. ANS: F PTS: 1

## MULTIPLE CHOICE

5. ANS: D
6. ANS: A
7. ANS: A
8. ANS: B
9. ANS: A
10. ANS: A
11. ANS: B
12. ANS: C
13. ANS: B
14. ANS: B
15. ANS: C
16. ANS: C
17. ANS: B
18. ANS: B
19. ANS: C
20. ANS: A
21. ANS: C
22. ANS: C
23. ANS: D
24. ANS: D
25. ANS: B
26. ANS: C
27. ANS: D OBJ: 2.2.2
28. ANS: C
29. ANS: D
30. ANS: A
31. ANS: A
32. ANS: B
33. ANS: D
34. ANS: A

PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1

DIF: L1 REF: p. 45
,

## MULTIPLE RESPONSE

35. ANS: C, D PTS: 1
36. ANS: A, B, C PTS: 1
