1. Hydrogen is an example of an atom.

- a. True
- b. False

ANSWER: True

2. Medical imaging refers to invasive techniques and processes.

a. True

b. False

ANSWER: False

3. Electrolytes are responsible for the acidity or alkalinity of solutions and can conduct an electrical charge.

a. True

b. False

ANSWER: True

4. Fructose found in fruit and honey is an example of a disaccharide.

- a. True
- b. False

ANSWER: False

- 5. Phospholipids are lipids that contain cholesterol.
 - a. True
 - b. False

ANSWER: False

- 6. Enzymes are specialized protein molecules found in all living cells.
 - a. True
 - b. False

ANSWER: True

7. RNA structures are unique for each person and so are usable as a means of identification.

- a. True
- b. False

ANSWER: False

- 8. Another name for a base is alkali.
 - a. True
 - b. False

ANSWER: True

9. Buffers help a living organism to maintain a constant pH value.

- a. True
- b. False

ANSWER: True

10. Nuclear medicine is a branch of medicine that uses radioactive isotopes to prevent, diagnose, and treat disease.

a. True

b. False

ANSWER: True

11. The study of the chemical reactions of living things is called _____.

a. anatomy b. biochemistry

c. physiology d. physics

ANSWER: b

12. Sitting is a chair is an example of _____ energy
a. potential b. kinetic
c. ongoing
ANSWER: a

13. Atoms that are alike combine to form the next stage of matter, which is a(n) _____.

a. compound b. molecule

c. element

ANSWER: c

- 14. Water makes up what percentage of our body weight?
 - a. 35% to 40% b. 55% to 65%
 - c. 75% to 80% d. Greater than 90%

ANSWER: b

15. Which of the following is an example of a lipid?

c. Fat d. Enzyme

ANSWER: c

16. Triglycerides are a type of _____.
a. protein b. fat
c. carbohydrate d. glycogen

ANSWER: b

ANSWER. D

17. The nucleus of every human cell contains how many chromosomes?

a. 23 b. 46

c. 69 d. 92

ANSWER: b

18. The sour taste of lemons is due to the presence of a compound called a(n) _____.

a. acid b. base

c. salt d. pH

ANSWER: a

19. When an acid and a base are combined, they form a salt and water. This type of reaction is called a(n) _____.

Class:

- a. negatively charged hydroxide ion
- b. neutralization
- c. ionization

ANSWER: b

20. A solution with a pH of 5 would tell you it is _____.

a. acidic b. alkaline

c. neutral

```
ANSWER: a
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- 21. Milk of magnesia is an example of a(n) _____ liquid.
 - a. acid b. base

c. neutral

ANSWER: b

- 22. Which of the following is required for the body to function at an optimum level of health?
 - a. Highly acidic level b. Highly alkaline level
 - c. State of homeostasis d. None of the answers are correct.

ANSWER: c

23. Which of the following is an example of an extracellular fluid?

a. Tears	b. Blood
c. Fluid within the cell	d. Urine
ANSWER: b	

24. Which of the following means many?

- a. Poly b. Uni
- c. Intra d. Di

ANSWER: a

25. Which of the following would best be described as a scanning procedure that provides visualization of fluid, soft tissue, and body structures without the use of radiation?

- a. Computed axial tomography (CAT, or CT, scan)
- b. Magnetic resonance imaging (MRI)
- c. Positron emission tomography (PET) scan
- d. Bone scan

ANSWER: b

26. Molecules that contain carbon, hydrogen, and oxygen are known as ______. *ANSWER:* organic compounds

27. Molecules known as ______ are the building blocks of protein.

ANSWER: amino acids

Name:	Class:	Date:
Chapter 2 Che	mistry of Living Things	
28. The smallest ANSWER: ato	t particles of elements that enter into chemical reactions are ms	
29. The number ANSWER: ele	of protons in an atom is equal to the number of ctrons	
ANSWER: 92	of elements found naturally in our world is	
31. The smallest ANSWER: mo	t unit of a compound is a(n) lecule	
32. A positively ANSWER: ion	or negatively charged particle is called a(n)	
	oups of organic compounds are,,, , and	,
car car car lipi pro pro	bohydrates, lipids, proteins, nucleic acids bohydrates, proteins, nucleic acids, lipids bohydrates, proteins, lipids, nucleic acids bohydrates, nucleic acids, lipids, proteins ds, proteins, nucleic acids, carbohydrates teins, nucleic acids, lipids, carbohydrates teins, lipids, nucleic acids, carbohydrates cleic acids, lipids, proteins, carbohydrates	
	is involved in the process of heredity.	
ANSWER: DN	IA Deoxyribonucleic acid	
35. Compounds	can be classified into the following three groups:,,	, and
bas bas salt	ds, bases, salts ds, salts, bases es, salts, acids es, acids, salts is, acids, bases ts, bases, acids	
Match the eleme	ent name with its symbol.	
a. calcium	b. carbon	
c. hydrogen	d. iron	
e. oxygen	f. sodium	
g. potassium	h. nitrogen	
i. magnesium	j. phosphorus	

36. Na

ANSWER: f

37. Mg ANSWER: i

38. O

ANSWER: e

39. K

ANSWER: g

40. N

ANSWER: h

41. Ca

ANSWER: a

42. P

ANSWER: j

43. Fe

ANSWER: d

44. C

ANSWER: b

45. H ANSWER: c