

Chemistry
Unit 3 Assessment

Date: _____

Name: _____

Choose the correct answer.

1. Coefficients that balance the following chemical reaction equation are:
 - a) The sum of the masses of protons, neutrons and electrons.
 - b) The sum of the masses of protons and neutrons.
 - c) The sum of the masses of protons.
 - d) The sum of the masses of neutrons.

2. Chemical equations balancing that model reactions are based upon:
 - a) The principle of conservation of energy.
 - b) The principle of conservation of charge.
 - c) The principle of conservation of mass.
 - d) The principle of conservation of valence.

3. Electrons in the valence layer that may form bonds are the ones that are:
 - a) Ionized.
 - b) In orbit 2s.
 - c) In orbit 1p.
 - d) Free pairs.

4. Polar molecules are the ones that:
 - a) Present magnetic properties and have a north and south pole.
 - b) Have neutral charge but distributed in a non-homogenic way.
 - c) Present unbalanced electric charge and form ionic bonds.
 - d) Have specific chemical properties about form.

5. All of the following magnitudes are in the nano scale, except for:
 - a) An atom radium.
 - b) A cell mass.
 - c) An electron mass.
 - d) A proton mass.

6. In which scale would you set the distance between your house and school?
 - a) Nano.
 - b) Micro.
 - c) Macro.
 - d) Astronomic.

- b) 18 moles.
- c) 18 amu.
- d) 18×10^{23} g.

14. The mass of 1 water mole is:

- a) 18 g.
- b) 18 moles.
- c) 18 amu.
- d) 18×10^{23} g.

15. The mass of 1 carbon dioxide mole is:

- a) 16 g.
- b) 32 g.
- c) 12 g.
- d) 44 g.

16. The elements C, H, O, N, S and P are known as:

- a) Organic elements.
- b) Primary bioelements.
- c) Oligoelements.
- d) Vital elements.

17. Proteins are formed by simpler structural elements known as:

- a) Aminoacids.
- b) Carbohydrates.
- c) Lipids.
- d) Polisaccherides.

18. Metallic elements such as K, Na, Cl, Fe and Ca present in small quantities in living organisms, whose excess or lack may cause health damage are:

- a) Primary bioelements.
- b) Oligoelements.
- c) Vitamins.
- d) Minerals.

Chemistry

Unit 3 Answer Key

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