



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 21.06.21

Duration: 40 min

Worksheet Solution 29

Full Marks: 15

ELEMENTS, COMPOUNDS AND MIXTURES/ COMPOUNDS

Choose the Correct options:

- H₂O and FeS represent _____.
 - Compounds**
 - Elements
 - Mixtures
 - Colloid
- Which of the following is a compound?
 - Sodium hydroxide**
 - Sodium sulphide solution
 - Salt solution
 - Sulphur
- Which of the following is a pure substance made up of two or more types of atoms or elements?
 - Mixture
 - Element
 - Compound**
 - Colloid
- Copper sulphate can be further subdivided into simpler substances by chemical means only. Therefore, it is _____.
 - an element
 - a mixture
 - a compound**
 - Colloid
- Which of the following is the smallest part of a compound, whose properties are the same as those of the compound?
 - Molecule**
 - Atom
 - Element
 - Mixture
- Which of the following is a compound?
 - Sodium sulphide solution
 - Sodium sulphide**
 - Sodium
 - Sulphur
- The simplest formula of a substance shows:
 - the actual number of atoms of each element in one molecule of a substance.**
 - the elements that make up one molecule of the substance and the simplest whole number ratio between the atoms.
 - the number of molecules in a sample of the substance.
 - the molecular mass of the substance.

8. CaCO_3 represents a chemical .
- symbol
 - subscript
 - formula**
 - reaction
9. Select the answer that is a compound.
- Gold
 - Chicken noodle soup
 - Table salt**
 - Rocky road ice cream
10. When magnesium (Mg) metal is burned in the presence of oxygen gas (O_2), magnesium oxide (MgO) is produced. The properties of magnesium oxide are different from the individual properties of magnesium and oxygen because magnesium oxide is
- a solution.
 - a mixture.
 - a compound.**
 - an element.
11. Which of the following best describes carbon monoxide?
- element
 - compound**
 - homogeneous mixture
 - heterogeneous mixture
12. How many atoms are represented in the formula CaCO_3 ?
- 3
 - 4
 - 5**
 - 6
12. Water is an example of a(n) .
- element
 - homogeneous mixture
 - compound**
 - heterogeneous mixture
13. In the chemical formula CO_2 , the subscript 2 shows which of the following?
- There are two oxygen ions.
 - There are two oxygen atoms.**
 - There are two CO_2 molecules.
 - There are two CO_2 compounds.
14. Which of the following is a compound?
- dirt
 - silver
 - water**
 - blood
15. Sodium Chloride (NaCl) is an example of .
- a solid
 - a compound**
 - a crystal
 - all of the above

