

Chemical Bonding, Metals, Non-metals and Metalloids

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Practice Problems with Solution

Question 1: Which among the following is not a chemical change?

- A: Burning of coal
- B: Digestion of food
- C: Freezing of water
- D: Rusting of iron

Question 2: A chemical bond formed by the sharing of electron pairs is called

- A: ionic bond
- B: metallic bond
- C: covalent bond
- D: hydrogen bond

Question 3: Which of the following is a compound?

- A: Nitrogen
- B: Oxygen
- C: Carbon dioxide
- D: Hydrogen

Question 4: Among the following, which is not a coinage metal?

- A: Copper
- B: Silver
- C: Zinc
- D: Gold

Question 5: The only metal which exists in liquid state at room temperature?

- A: Tin
- B: Mercury
- C: Chromium
- D: Molybdenum

Question 6: The most electro negative element in the periodic table is _____

- A: Oxygen
- B: Nitrogen
- C: Flourine
- D: Chlorine

Question 7: The alloy used for manufacturing aircrafts is _____

- A: Alnico
- B: Bronze
- C: Duralumin
- D: Stainless Steel

Question 8: The Seventeenth Group elements in the periodic table are also known as _____

- A: Alkali Metals
- B: Halogens
- C: Alkaline Earth Metals
- D: Noble Gases

Question 9: Which is a metalloid among the following elements?

- A: Zinc
- B: Germanium
- C: Sodium
- D: Copper

Question 10: Which is the most abundant metal in the Earth's crust?

- A: Iron
- B: Copper
- C: Calcium
- D: Aluminium

Answers and Solutions

1:- C

Solution: A chemical change is one in which the substance undergoing change is transformed into a new substance and in which the process is not reversible.

2:- C

Solution: When two atoms share electron pairs, the chemical bond formed between them is known as Covalent bond.

3:- C

Solution: A compound is formed by the combination of two or more elements. Carbon dioxide is formed by the combination of carbon and oxygen.

4:- C

Solution: Metals used for minting coins are called coinage metals. Copper, Silver and Gold are used for making coins and hence they are coinage metals.

5:- B

Solution: Mercury exists in liquid state at room temperature due to its low melting point. The melting point of Mercury is -38.9 degree celsius.

6:- C

Solution: The most electronegative element in the periodic table is Flourine. Electro-negativity is the ability of an atom to attract the shared pair of electrons in a covalent bonded molecule. Electro-negativity is expressed in Pauling Scale and the maximum value is for Flourine which is 4.

7:- C

Solution: Duralumin is an alloy of aluminium, copper, magnesium and manganese. Duralumin is a hard but light weight alloy of aluminium and hence it is suitable for manufacturing aircrafts.

8:- B

Solution: The elements in the periodic table that have seven electrons in their valence shell are called Seventeenth Group elements. Since seventeenth group elements form salts [eg: sodium chloride], they are also known as halogens. [Halogens mean "salt forming" in Greek].

9:- B

Solution: A metalloid is an element that has properties intermediate between those of metals and non-metals. Metalloids are also known as semi-metals. There are only seven metalloids in the periodic table and they are Boron, Silicon, Germanium, Arsenic, Antimony, Tellurium and Polonium.

10:- D

Solution: The most abundant metal in the Earth's crust is Aluminium [8 percentage] followed by Iron [5 percentage] and Calcium [3.6 percentage].

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