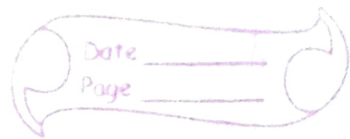


Chemistry. ①

Worksheet

Name - Subhankar Moharatha



Atoms, Molecules, class-VII. Sec-D/B.

1. Atoms are particle of matter that unique defines.
2. Metals have variable valency.
3. The number of atoms present in a molecule of an element is called as Atomicity.
4. The combining capacity of an element is known as valency.
5. Carbon is the ~~element~~ element with valency 4.
6. The valency of iron in Fe_2O_3 is 3.

II Define the following:

1. Atom = Atom is the smallest unit of matter.
2. Molecules - Molecules is the smallest unit of a compound which always has an independent existence.

3. Valency: It is the number of electrons donated or accepted by the valency shell of an atom during chemical combination.

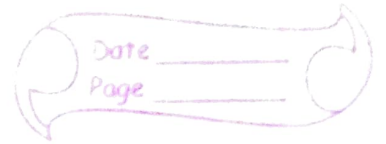
4. Radicals: A radical is an atom of an element or a group of atoms of different elements that behaves as a single unit with a positive or negative charge on it.

~~(ii) Magnesium ion: Symbol Magnesium~~

	Symbol	Valencies
1. Magnesium ion:	Mg ²⁺	2
2. carbonate:	CO ₃ ²⁻	2
3. Ammonium:	NH ₄ ⁺	1

- (iv)
- 1) SO₄²⁻ - Sulphate
 - 2) OH⁻: Hydroxide
 - 3) HCO₃⁻ - Bicarbonate
 - 4) Cr₂O₇²⁻: Dichromate.

3



- 1) a) common salt: Sodium, chlorine
- b) Sulphuric acid: Hydrogen, sulphur, oxygen
- c) Sodium hydroxide: Sodium, oxygen, hydrogen.
- d) Ammonia: Nitrogen, hydrogen.

- 2) a) $(\text{NH}_4)_2\text{SO}_4$ - Ammonium Sulphate
- b) FeS - Calcium Nitrate Iron sulphate.
- c) NH_4OH - Ammonium Hydroxide

- 3) a) sodium sulphide - Na_2S .
- b) magnesium oxide - MgO
- c) calcium hydroxide - $\text{Ca}(\text{OH})_2$
- d) hydrogen chloride - HCl
- e) sulphuric acid - H_2SO_4 .