

1) International Union of Pure and Applied Chemistry.

2) COMPOUND

\* A compound is the substances that are formed by combining two or more chemical elements.

\* Compounds are always homogeneous in nature.

\* E.g. → Water ( $H_2O$ )

MIXTURE

\* A mixture is a substance created from two or more matter that can be separated with physical methods.

\* They can either be homogeneous or heterogeneous in nature.

\* E.g. → Smog (Smoke and fog)

3) The factors that affect separation of mixture are state, melting & boiling point, solubility and size.

4) \* It can be separated by any physical means.

\* The physical and chemical property and composition of elements remains constant.

\* It is an impure substance having no chemical formula.

5) ~~Metals~~ Metalloids are typically semimetals or semiconductors which mean that they both insulate and conduct electricity. E.g. → Silicon, Boron etc.

6) The noble gases are the chemical element in group 18 of the periodic table. E.g. Neon.