

Elements, Compounds & Mixtures

1Q- Expand IUPAC.

ans IUPAC stands for International union of pure and applied chemistry.

2Q- Differentiate between compound & mixture

Compounds	Mixtures
i.) They are pure substances.	i.) They are impure substances.
ii.) They are always homogenous	ii.) They may be homogenous or heterogenous
iii.) They have a definite molecular formula.	iii.) They have no definite formula.

3Q- What do you mean by separation? On what factors the principle of separation depends?

ans- Separation means taking out undesirable substances to get desirable substances. The factors are state, melting point, boiling point, solubility and magnetic ~~nature~~ nature etc.

4Q- Mention any three characteristics of a mixture.

ans- Three characteristics of a mixture are:-

- All components of mixtures can be separated by simple physical methods.
- Mixtures can be heterogeneous or homogeneous.
- Mixtures don't have any specific set of properties.

5.) ~~They these~~ These elements show the ~~proper~~ properties of both metal & non-metal. They are ~~hard~~ hard solids. Ex- boron, silicon, germanium etc.

6.) These elements don't react chemically with other elements or compounds, so they are known as noble or inert gases. They are found in air, in traces. They are only six in number - helium, neon, argon, krypton, xenon & radon.