

Q2. Q1 Ans

a) List the characteristics of pure substances?

ans: - i) Pure substances have perfectly homogeneous nature.

ii) Pure substances are made up of only one type of atoms or molecules.

iii) Pure substances have a fixed composition.

iv) Pure substances have a fixed density, melting point, boiling point, physical and chemical properties.

b) Differentiate between:-

A) Elements and compounds.

ans: - Elements

i) There are millions of substances in this world. But they are all made up of limited number of basic substances. These are known as ~~elements~~ elements.

ii) For ex: - Oxygen, hydrogen, nitrogen, carbon, copper, silver etc.

Compounds

i) Compounds are pure substances formed by the chemical combination of two or more elements in a definite proportion by mass.

ii) For ex: - Water, marble, glucose, sugar, salt, alcohol, zinc chloride etc.

B) Homogeneous and heterogeneous mixtures

ans: - Homogeneous

i) A pure substance or a homogeneous mixture consists of a single phase.

ii) Ex: - Salt and sugar both are solids but they differ from each other because they are made up of different kinds of atoms.

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Heterogeneous

- i) A heterogeneous mixture consists of two or more phases.
- ii) Ex:- Water and oil are both liquids but their matter differs from each other.