

H.W.

## HOMEWORK :-

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Q1) Give five differences between elements and compounds.

Ans:- ELEMENTS

COMPOUNDS

⇒ Elements are pure substances which are composed of only one type of atom.

⇒ Compounds are substances which are formed by two or more different types of elements that are united chemically in fixed proportions.

⇒ There are 118 elements.

⇒ Compounds are almost endless.

⇒ Elements are classified as either metals, nonmetals, or metalloids.

⇒ Compounds are classified according to their bonds which can be ionic, molecular or metallic.

⇒ The representation of an element takes place by using a symbol.

⇒ The representation of a compound is by using a chemical formula.

⇒ Oxygen (O), Hydrogen (+H)

⇒ Sodium chloride (NaCl), Water (H<sub>2</sub>O)

Q2) The constituents of compounds can't be separated by physical means only by certain chemical means. Justify this statement.

Compounds differ from mixtures in that the elements in a compound are held together by chemical ~~for~~ bonds and ~~so~~ cannot be separated by differences in their physical properties. Compounds can be separated into their components only by chemical change.