Home Assignment

Exercise

1. (a) Define a chemical reaction.

A) Any chemical change in matter which involves its transformation into one or more new substances is called a chemical reaction.

(b) What is a chemical equation.

A) A chemical equation is the symbolic representation of a chemical reaction using symbols and formulae of the reactants involved and the product(s) formed in the reaction.

(c) Why do we need to balance chemical equations?

A) We need to balance chemical equations in order to maintain the "law of conservation of mass" and the

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a law of conservation of matter".

2. State four conditions necessary for chemical reactions to take place.

A) Four conditions necessary for chemical reactions to take place are:-

1. Close contact.
2. Solution form.
3. Heat.
4. Light.

Q. What do you mean by a Catalyst? Give an example.

A) A Catalyst is a substance that changes the rate of chemical reactions without undergoing any change by itself. For example, Potassium chlorate can be decomposed in the presence of Manganese dioxide as a catalyst to produce potassium chloride and oxygen.

Q. Give an example of a chemical reaction that takes place in the presence of:-

a) Light

A) Photosynthesis

b) Heat

A) Iron reacts with sulphur in the presence of heat to produce Iron Sulphide.