



# KALPAVRUKSHA MODEL SCHOOL

## Online class Assignments

Class: X

Sub: Chemistry

Date: 08.06.2021

Topic: Chemical reactions and equations

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### I. Answer the following questions:

1. Define the following: a) Neutralization reaction b) Exothermic reaction c) Endothermic reaction.

**Ans: a) Neutralization reaction:** A chemical reaction of an acid with a base to form salt and water is called neutralization reaction OR It is a chemical reaction in which  $H^+$  ions from an acid react completely with  $OH^-$  ions from a base to form undissociated water molecules.

**b) Exothermic reaction:** A chemical reaction in which heat energy is given out or liberated is called an exothermic reaction.

**c) Endothermic reaction:** A chemical reaction in which heat energy is absorbed is called an endothermic reaction.

2. Write any five uses of neutralization reaction in our day today life.

**Ans:**

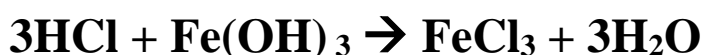
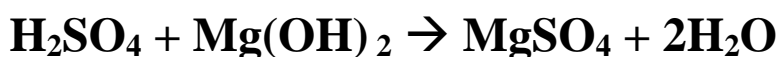
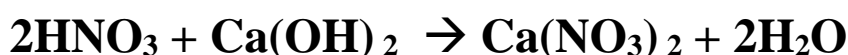
- The acidity of soil is removed by adding slaked lime.
- Antacid tablets containing magnesium hydroxide is given to the person suffering from acidity.
- Astronauts in the space ships use alkali to neutralize the harmful levels of carbon dioxide, etc.

- Vinegar is used to cure wasp stings that are alkaline in nature.
- Baking powder is used to cure bee stings and ant bites that are acidic in nature.
- Toothpaste contains bases that neutralise the acid produced by bacteria in our mouth.
- Baking powder is usually used to help the cakes rise.

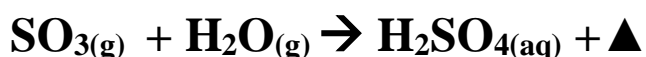
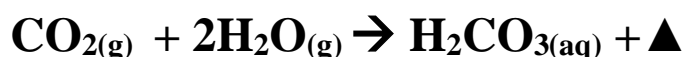
3. Write any three balanced equations for the following

a) Neutralization reaction b) Exothermic reaction c) Endothermic reaction.

**Ans:** a) Neutralization reaction



b) Exothermic reaction



c) Endothermic reaction.

