

Science

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(Chapter 1)(Chemical Reactions and Equations)

Class - 10

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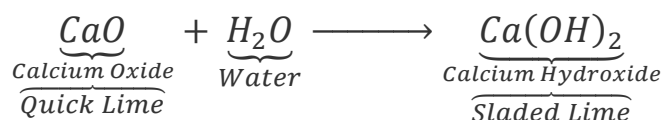
Question 1:

A solution of a substance 'X' is used for white washing.

- (i) Name the substance 'X' and write its formula.
- (ii) Write the reaction of the substance 'X' named in (i) above with water.

Answer 1:

- (i). The substance 'X' is calcium oxide. Its chemical formula is CaO.
- (ii). Calcium oxide reacts vigorously with water to form calcium hydroxide (slaked lime)



Question 2:

Why is the amount of gas collected in one of the test tubes in Activity 1.7 double of the amount collected in the other? Name this gas.

Answer 2:

During the *Electrolysis of water*, hydrogen and oxygen is get separated by the electricity. Water (H₂O) contains two parts hydrogen and one part oxygen. Since hydrogen goes to one test tube and oxygen goes to another, the amount of gas collected in one of the test tubes is double of the amount collected in the other.

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