

Carbonates

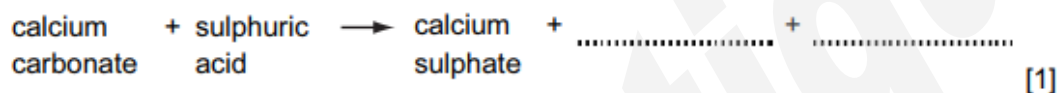
Past Year Topical Questions

May/June 2005

- 4 The Carlsbad caverns in New Mexico are very large underground caves. Although the walls of these caves are coated with gypsum (hydrated calcium sulphate), the caves have been formed in limestone.

(a) It is believed that the caves were formed by sulphuric acid reacting with the limestone.

(i) Complete the word equation.



Oct/Nov 2006

- 3 Calcium carbonate is an important raw material.

(a) Name a rock which is made up of calcium carbonate.

..... [1]

(b) When calcium carbonate is heated strongly, it decomposes.



(i) Calculate the relative formula mass of:

CaCO_3

CaO [2]

(ii) 7.00 kg of calcium oxide was formed. What mass of calcium carbonate was heated?

.....
..... [2]

(c) Calcium carbonate is used to control soil acidity.

(i) Why is it important to control soil acidity?

..... [1]

(ii) Both calcium carbonate, insoluble in water, and calcium oxide, slightly soluble, are used to increase soil pH. Suggest **two** advantages of using calcium carbonate.

.....
..... [2]

(iii) Give **one** use of calcium carbonate other than for making calcium oxide and controlling soil pH.

..... [1]

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