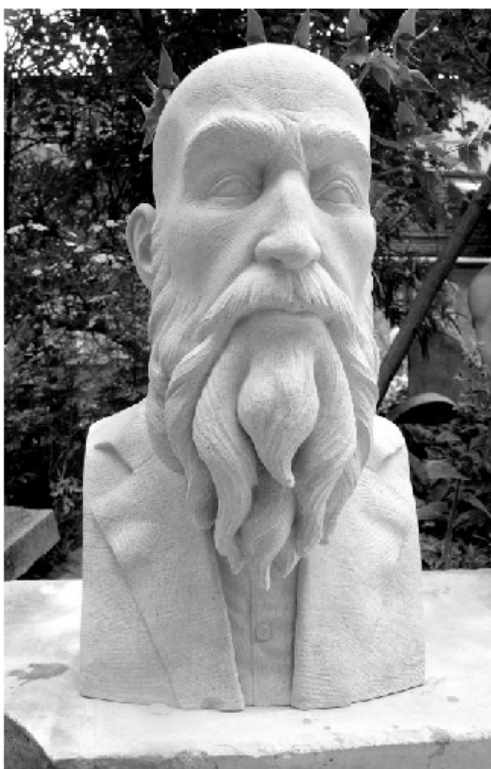


Question 1

- (iii) The sculpture, carved from limestone, of a bearded man in the photograph is new. How would you expect its appearance to change after years of exposure to acid rain? (3)

How? _____



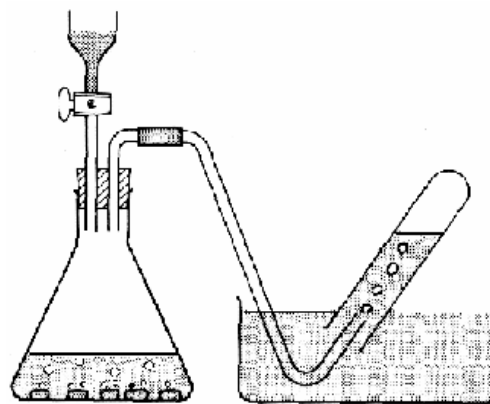
- (iv) Limestone is calcium carbonate.
Write a balanced chemical equation for the reaction of calcium carbonate with an acid of your choice. (9)

For
Examiner
use only

(1) (2)

Question 2

- (h) The apparatus shown in the diagram was used to investigate the reaction of zinc with hydrochloric acid. Hydrogen gas is produced.

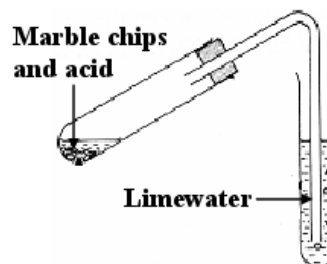


- (i) Describe a **test for hydrogen**.

- (ii) Write a **chemical equation** for the reaction of zinc with hydrochloric acid.

Question 3

- (g) Carbon dioxide turns limewater milky. Complete the **chemical equation** for the reaction of carbon dioxide with limewater.



Question 4

- (f) Complete the equation:

