

Question 1

- (b) What **effect** has acid rain on limestone? Explain this **effect**.

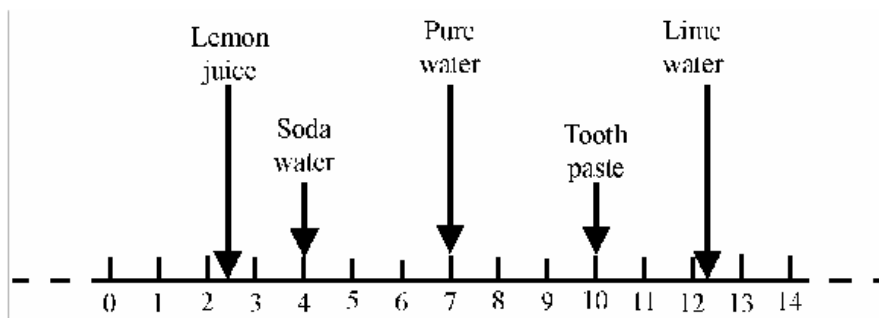
What? _____

Explain _____

(6)

Question 2

- (b) The diagram shows the *positions* of some common substances on the pH scale.



- (i) Classify the **substances** shown as **acidic, basic or neutral**. (9)

Acidic _____

Basic _____

Neutral _____

Question 3

(c) In a school laboratory, a student carried out a titration of hydrochloric acid (HCl) against sodium hydroxide (NaOH). The student used the pieces of apparatus labelled A and B in the diagram. (18)

(i) Name the two labelled pieces of apparatus.

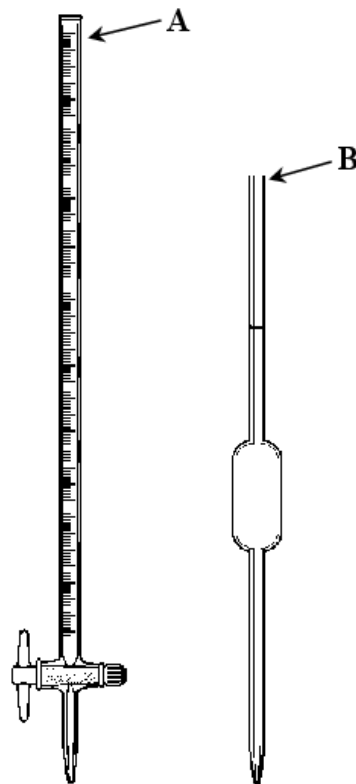
A _____

B _____

(ii) Name an indicator suitable for use in this titration.

What colour is this indicator in hydrochloric acid?

What colour is this indicator in sodium hydroxide?



(iii) Write out a balanced chemical equation for the reaction between hydrochloric acid and sodium hydroxide.

12. Name 3 types of fossil fuels.

(i) _____

(ii) _____

(iii) _____ (9)

13. What 2 elements do **Hydrocarbons** consist of? _____ and _____ (6)

14. What **gas** is mostly produced when fossil fuels are burnt? _____ (3)

15. Name a one type of **acid** found in Acid Rain? _____ (3)

16. Name the 3 **harmful** effects of Acid Rain.

(i) _____

(ii) _____

(iii) _____ (9)

17. Name two ways of **reducing** the problem of Acid Rain.

(i) _____

(ii) _____ (6)

