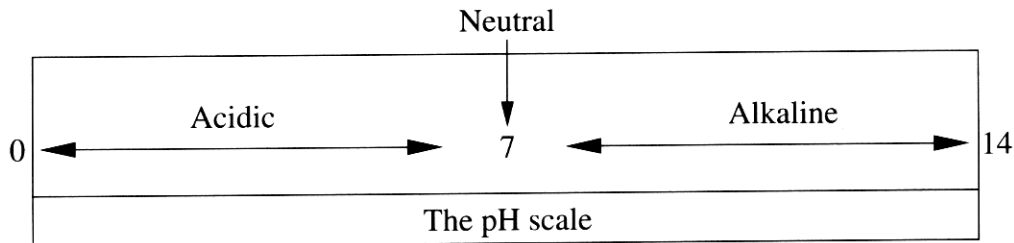


Marks

Question 26 (5 marks)

The following is an extract from a gardening website.

5



Hydrangeas are amazingly versatile in that you can alter the flower colour by changing the pH of the soil. In acid soils, hydrangeas produce blue flowers. In alkaline soils, hydrangeas produce mauve, pink and red flowers.

Describe a first-hand investigation that could be used to verify the effects of pH on the colour of hydrangea flowers.

To verify the effects of pH on the Hydrangea flower colours an experiment should be set up where there are 14 ~~plants~~ hydrangeas planted in 14 pots each with a set pH level from 0-14. Leave the plants until flowering and observe the different colours.