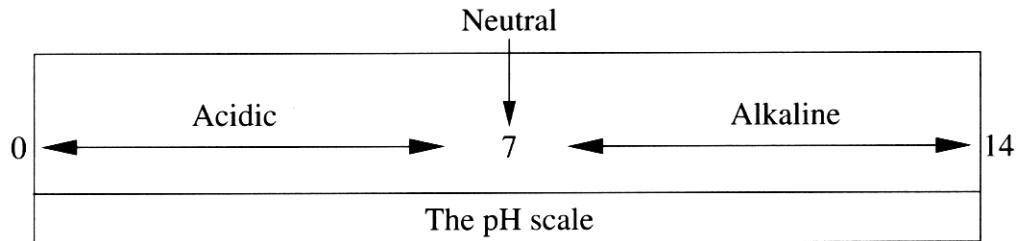


Marks

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.

An investigation that could be used to verify the effects of pH on the colour of hydrangea flowers, by planting many hydrangea plants into different pH levels, from acidic to alkaline, soils. Then observe the effect of the pH on the flowers as they come to bud.