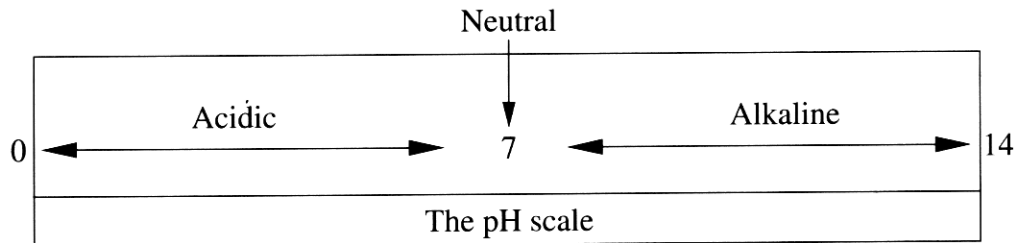


Marks

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.

.....
By describing the effects of pH on the colour of hydrangeas, we can investigate by planting the hydrangeas in different types of soils and changing the pH of the soil. The hydrangeas can be let to grow, and over the next few weeks, we can investigate the colouration of the plants and what type of soil and pH had the greatest effect on the plant.
.....
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