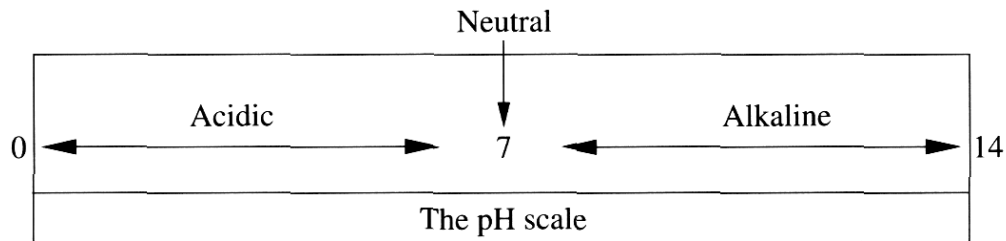


Marks

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.

- Take 5 ~~different~~ patches of soil ~~each~~ each with a different pH.
- Take 5 hydrangea plants each being exactly the same, breed, age etc and plant one in each patch of soil.
- Expose each plant to the same amount of water and sunlight
- Monitor the results making sure you label each plant and soil type to ~~at~~ make certain your results are as accurate as possible.