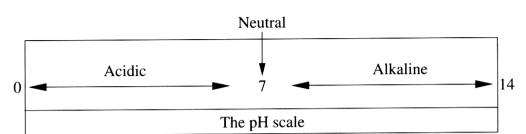
Marks

5

Question 26 (5 marks)

The following is an extract from a gardening website.



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.

Experiment - Affect of environment on phenotype

Aim - To see the change in the coloning flugdranger

Flowers to different ph's

Method -1 Set up 7 trays of soil mix with ph

Levels of ph 2 ph 4 ph 6 ph 8 ph 10 ph 12 ph 14 soil mix

2 Plant 20 seeds of the same type of hydrangers

In each of the trays

3. Allow the seeds to grand making sure that

They get the same amount of mater and suright

It when they blossom record the colour of the

different trays. Set up a table of your results