

10/15

9Sc XII
pg-3

then the bacteria present in our mouth break down the sugar to form acids. Thus acid is formed in the mouth after a sugary food has been eaten. This acid lowers the pH in the mouth. Tooth decay starts when the pH of acid formed in the mouth falls below 5.5.

This is ~~best~~ ^{becomes} strong enough to attack the enamel of our teeth and corrode it. This sets in tooth ~~decay~~ decay.

3. Plants and Animals are sensitive to pH changes. → The plants and animals are sensitive to pH changes in their environment. In fact, the growth of plants and survival of animals depends to a large extent on the availability of proper pH condition which suit them.

4. Soil pH and plants growth: → most of the plants grow best when the pH of the soil

9/15/16

Page 2

20/2/16

basic liquids for self defense purposes.

1. pH in our Digestive System \rightarrow Our Stomach

produces hydrochloric acid (of pH about 1-2)

This dilute hydrochloric acid helps in digesting our food without harming the

Stomach. Sometimes, excess of acid is produced in the Stomach due to various reasons.

The excess acid in the Stomach causes indigestion which produces pain and irritation.

In order to cure indigestion and get relief of pain, we can take bases called antacids.

Being the nature of basic, antacids react with excess acid in the Stomach and neutralise it.

2. pH change as the cause of tooth decay \rightarrow

when we eat food containing sugar

Bacteria present in our mouth break
down sugar to form acids. Thus acid is formed
in the mouth after a sugary food has
been eaten. This acid lowers the pH in the
mouth. Tooth decay starts when the pH of
the mouth falls below 5.5.
This is because it becomes strong
enough to attack the enamel of our teeth
and corrode it. This sets in tooth decay.
3. Plants and animals are sensitive to pH changes.

P 15/51

Apr-4

35-38

is close to 7. If the soil is too acidic or too basic, the plants grow badly or do not grow at all.

If the soil is too acidic, then it is treated with materials like quick lime (Calcium oxide) or slaked lime (Calcium hydroxide) or chalk (Calcium carbonate).

(ii) pH Change and Survival of Animals: → The pH plays an important role in the survival of animals, including human beings. Our body works well within a narrow pH range of 7 to 7.8. If due to some reasons, this pH range gets disturbed in the body of a person, then many ailments can occur.

10/15

Chemistry of d-block elements

It is the important part of group 10 chemistry. Firstly we can study d-block

element - the elements which have

partially filled d orbitals either ground

state or in one or more of their ions

are called d-block elements or outer

transition elements. Their properties are

intermediate between s-block elements

and p-block elements.

The d-block elements are found

in the middle of the periodic table. The d-block

elements are called transition metals

and have valence electrons in d orbitals.

We can also say that d-block

When the elements occupy the space between s-block and p-block.

between the s-block and p-block in the periodic table since they show the transition in the properties from the metals to the non-metals, they are also called transition elements.

The elements in group 10 through 10 are called the transition metals.

Sometimes this block of elements are referred to as the d-block. They are called d-block elements because the electrons being added in this block of elements are d, being added to the d orbitals.

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