CHEMISTRY

Acids, Bases and Salts

Q1 To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is:

(A) acidic (B) neutral
(C) basic (D) corrosive

Q2 Which of the following statements is correct about an aqueous solution of an acid and of a base?

(i) Higher the pH, stronger the acid
(ii) Higher the pH, weaker the acid
(iii) Lower the pH, stronger the base
(iv) Lower the pH, weaker the base

(A) (i) and (iii) (B) (ii) and (iii)
(C) (i) and (iv) (D) (ii) and (iv)

Q3 The pH of the gastric juices released during digestion is:

(A) less than 7 (B) more than 7
(C) equal to 7 (D) equal to 0

Q4 A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish-orange. Which of the following would change the colour of this pH paper to greenish-blue?

(A) Lemon juice (B) Vinegar
(C) Common salt (D) An antacid

Q5 Identify the substance from which our tooth enamel is made up of and the pH below which it gets corroded.

(A) Calcium phosphate, 7.4
(B) Calcium carbonate, 5.5
(C) Calcium phosphate, 5.5
(D) Calcium carbonate, 7.4

Answer Key

Q1 (C)

Q2 (D)

Q3 (A)

Q4 (D)

Q5 (C)

Hints & Solutions

Q1 **Text Solution:**
Try to think about the nature of tooth enamel and saliva.

Video Solution:

Q2 **Text Solution:**
Strong acids show red colour on the pH scale which are on the extreme left side of the scale.

Video Solution:

Q3 **Text Solution:**
Gastric juice is acidic, hence its pH will be less than 7.

Video Solution:

Q4 **Text Solution:**
Try to find a basic substance out of the mentioned substances.

Video Solution:

Q5 **Text Solution:**
Try to think about the nature of tooth enamel and saliva.

Video Solution: