MULTIPLE CHOICE QUESTIONS (Based on each experiment)

Experiment - 1

Q. 1 A student was asked to place a drop of solution 's' on a pH paper, deep blue colour appeared on the strip solution 'S' should be.

(a) Hydrochloric acid (b) Sodium Hydroxide

(c) Water (d) Acetic acid (ethanoic acid)

Q. 2 The two colours seen at the periphery of pH chart are:-

(a) Red and blue (b) Red and Green

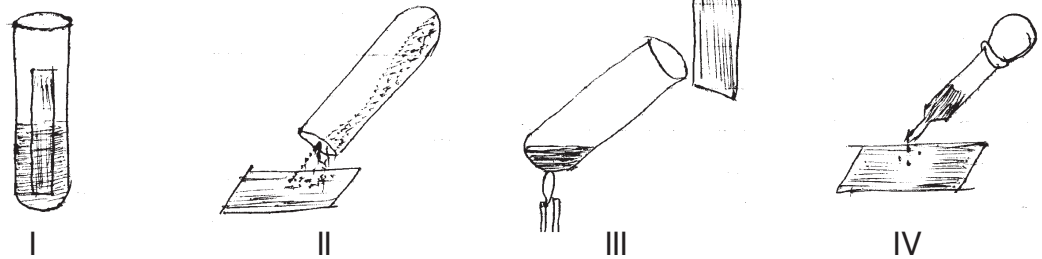
(c) Green and Blue (d) Orange and Green

Q. 3 Which one of the following solution with some concentration will have lowest value of pH?

(a) Sodium bicarbonate ($NaHCO_3$) (b) Hydrochloric acid (HCl)

(c) Sodium hydroxide (NaOH) (d) Ethanoic acid (CH_3COOH)

Q. 4 Which one is the correct figure of method to find the pH of a solution.



I II III IV

(a) IV (b) III

(c) II (d) I

Q. 5 What is the correct increasing order of the pH values of the following solution with equal concentration.

(a) HCl, NaOH, CH_3COOH (b) HCl, CH_3COOH, NaOH

(c) NaOH, HCl, CH_3COOH (d) CH_3COOH, HCl, NaOH

Q. 6 Which one is the correct statement with referenace to universal indicator?

(a) It is a mixture of HCl and NaOH

(b) It is a mixture of many indicator

(c) It is a solution of Phenolphthalein in alcohol

(d) It is a solution of phenolphthalein in water

Q. 7 The pH of a sample of pure water is 7 at room temperature. What will be its pH when a pinch of solid sodium carbonate is dissolved in it.

(a) very near to 7 (b) Less than 7

(c) More than 7 (d) exactly 7

Q. 8 For acidic medium the pH value is always :–

(a) Less than 7 (b) equal to 7

(c) equal to 0 (d) greather than 7

Q. 9 pH value of a solution signifies whether the substance is :–

(a) acidic (b) alkaline

(c) neutral (d) all of these

Q. 10 A solution has pH = 10.5. It will

(a) turn blue litmus to red (b) turn red litmus to blue

(c) no effect on litmus (d) turn blue litmus yellow

Q. 11 Four solutions I, II, III and IV were given to a student to test their acidic or basic nature by using a pH paper. He observed that the colour of pH paper turned to Red, Blue, Green and Orange respectively when dipped in four solutions, the correct conclusion made by the statement would be that :-

(a) I, II and III are acidic. (b) I and IV are acidic.

(c) II, III and IV are basic. (d) II and IV are basic

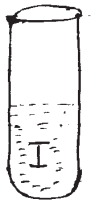
Q. 12 Observe the following figures and choose the correct option.

(a) pH of I is greater than pH of II and III.

(b) pH of III is greater than pH of I and II.

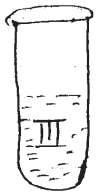
(c) pH of I, II, III is equal.

(d) pH of II is greater than pH of I & III.



dil HCL

Water



NaOH Solution

Q. 13 A students was given four unknown colourless samples labelled A, B, C and D and asked to test their pH usig pH paper. He observed that the colour of pH paper turned to light green, dark red, light orange and dark blue with samples A, B, C and D respectively.

(a) A < B < C < D

(b) A < D < C < B

(c) C < B < A < D

(d) B < C < A < D