

H. W Class 7th
27 May

Science

Q1. Write short note on natural indicators.

Ans: Indicators are of two types - natural and artificial.

Naturally occurring indicators are turmeric, litmus, china rose and red cabbage.

Litmus

Litmus is a natural dye extracted from lichens. It is the most commonly used natural indicator.

Litmus turns acidic solutions red and basic solutions blue. Neutral solutions do not change the color of either red or blue litmus.

Turmeric

Turmeric gives brownish red color in basic medium and yellow in acidic medium.

China Rose

A solution of china rose turns green in a basic solution, and bright pink or magenta in an acidic solution.

Q2. Name two chemical or artificial indicators and its effect with acid and base.

Ans: Methyl orange- is a pale yellow in color, it turns pink in acidic solution and no color change in a base.

Phenolphthaleine- it is a colorless solution, it turns pink in basic solution and no change in acid.

Q3. What is pH and pH scale?

Ans: pH stands for hydrogen potential, it means the concentration of hydrogen ions in a solution.

pH scale- The measure of acidity or basic nature of a substance can be determined by its pH value.

The pH value range from 1 to 14 with 1 being the most acidic substance and 14 being the most basic substance while 7 is a neutral substance.

The pH value is generally determined by using pH strips or solutions

Maths

1.) Simplify $(-5) + (-3) + (-8) + 89$

2.) Divide - 32 by 8

3.) Write the commutative Property over multiplication.

4.) Verify $a + (b + c) = (a + b) + c$ for $a=5$, $b=12$, $c=-2$

5.) Prove that all natural numbers are Integer.

Notes :- Social Science

Chapter. The structure of the earth

Q.1 Name the different layers of the earth?

Answer

The different layers of earth are :--

Crust ===== The topmost layer

Mantle ===== The Middle layer

Core ===== *The inner most layer.

Q.2 Define Crust and it's composition ?

Answer

The topmost and thinnest layer of the earth is called the crust.

This layer is formed by the silica and alumina.

This layer is also called Sial.

Q.3 Define Core and it's composition?

Answer

The Core is situated below the mantle and around the center of the earth with a radius of about 3500 km

It is made up of heavy metals such as Nickel and iron.

This layer is also called Nife