**Class: VII**

**LAB ACTIVITY**

**Aim** – To test the nature of various substances with the litmus paper.

**Materials required** – Red and Blue litmus papers, test tubes, test tube stand, vinegar, baking soda solution, sodium hydroxide solution, hydrochloric acid solution.

**Procedure** – 1) Collect samples of the solutions mentioned above.

2) Pour the solutions in four different test tubes.

3) Dip both red and blue litmus papers in each test tube.

4) Observe the changes in colour of litmus papers in each case.

5) Record the observations.

**Observation** –

|  |  |  |  |
| --- | --- | --- | --- |
| **Test solution** | **Red litmus paper** | **Blue litmus paper** | **Nature** |
| Vinegar | No change in colour | Turns into red | Acidic |
| Baking soda | Turns into blue | No change in colour | Basic |
| Sodium hydroxide | Turns into blue | No change in colour | Basic |
| Hydrochloric acid | No change in colour | Turns into red | Acidic |

**Conclusion** – Vinegar and hydrochloric acid solutions are acidic.

Baking soda solution and sodium hydroxide solution are basic.