Acids and Bases Class:10 Sistla **Name:** **Date**

1. In any sample of water, there are always some water molecules which have.

a) H_2O^+ and OH^-
b) HO^+ and H_2O^-
c) H_3O^+ and OH^-
1. HO^+ and HO^-

2. When the pH of water is neutral,

a) a higher concentration of OH^- than H_3O^+
b) an equal concentration of OH^- and H_3O^+
c) a higher concentration of H_3O^+ than OH^-
d) no OH^- ions and no H_3O^+ ions

3. When a solution becomes more acidic, the number on the pH scale.

a) Decreases
b) Increases
c) Stays the same
d) Doubles

4. When the solution becomes more basic, the number on the pH scale.

a) Decreases
b) Increases
c) Stays the same
d) Triples

5. When the pH of a solution becomes acidic, the concentration of H_3O^+ ions.

a) Decreases
b) Increases
c) Stays the same
d) Doubles

6. When the pH of a solution becomes basic, the concentration of H_3O^+ ions.

a) Decreases
b) Increases
c) Stays the same.
d) Triples