

Properties of Water Exit Quiz

I. Give the scientific term that represents each of the following:

1. The bond that exists in water molecules.

[_____]

2. The property that makes water able to dissolve many compounds.

[_____]

3. The bond that is formed when hydrogen exists between two molecules of high electronegativity.

[_____]

4. The mass per unit volume.

[_____]

5. The universal solvent.

[_____]

II. Give reasons for:

1. The high boiling point and melting point of water.

2. Oxygen forms a single covalent bond with hydrogen in water molecules.

3. Water has a neutral effect.

Properties of Water Exit Quiz

ANSWERS

I. Give the scientific term that represents each of the following:

1. The bond that exists in water molecules.

[**Covalent Bond**]

2. The property that makes water able to dissolve many compounds.

[**Polarity**]

3. The bond that is formed when hydrogen exists between two molecules of high electronegativity.

[**Hydrogen Bond**]

4. The mass per unit volume.

[**Density**]

5. The universal solvent.

[**Water**]

II. Give reasons for:

1. The high boiling point and melting point of water.

The abnormality of the boiling point and melting point of water is due to the presence of hydrogen bonds. The hydrogen bonds takes extra amount of heat energy to be broken first, then the molecules get more heat energy and increase the spaces between the water molecules and change from ice to water in melting process or from water to steam in boiling process.

2. Oxygen forms a single covalent bond with hydrogen in water molecules.

Because oxygen shares only one electron with each hydrogen atom.

3. Water has a neutral effect.

This is because, when water is ionized, the positive H ions produced are equal to the negative OH ions.