POLARITY - Short Answers

- 1. When two atoms participating in a covalent bond share their electrons UNEVENLY, is it a polar covalent bond or non-polar covalent bond.
- 2. When two atoms participating in a covalent bond share their electrons EVENLY, is it a polar covalent bond or non-polar covalent bond.
- 3. What type of a covalent bond is formed when each of the following pairs of atoms join together.

Carbon - Carbon?

Carbon – Hydrogen?

Oxygen - Hydrogen?

Nitrogen – Carbon?

Oxygen – Carbon?

Nitrogen – Hydrogen?

- 4. Is water a polar or non-polar molecule?
- 5. Which of the following classes of molecules are polar and which are non-polar? Fats, Carbohydrates, Proteins, Nucleic Acids?
- 6. Are Carbon Dioxide and Oxygen gas polar or non-polar molecules?
- 7. Do polar molecules mix well with other polar molecules or do they mix better with non-polar molecules?
- 8. Are most molecules in the body polar or non-polar?
- 9. What is the only major class of molecules in the body that are Non-polar.
- 1. When two atoms participating in a covalent bond share their electrons UNEVENLY, is it a polar covalent bond or non-polar covalent bond.

Polar Covalent Bond

2. When two atoms participating in a covalent bond share their electrons EVENLY, is it a polar covalent bond or non-polar covalent bond.

Non-Polar Covalent Bond

3. What type of a covalent bond is formed when each of the following pairs of atoms join together.

Carbon – Carbon? Non-Polar

Carbon – Hydrogen? Non-Polar

Oxygen – Hydrogen? Polar

Nitrogen – Carbon? Polar

Oxygen – Carbon? Polar

Nitrogen – Hydrogen? Polar

4. Is water a polar or non-polar molecule?

Water is a polar molecule because it is composed of polar covalent bonds.



5. Which of the following classes of molecules are polar and which are non-polar? - Fats, Carbohydrates, Proteins, Nucleic Acids?

Fats are Non-Polar

Carbohydrates, Proteins and Nucleic Acids are Polar

- 6. Are Carbon Dioxide and Oxygen gas polar or non-polar molecules? Non-Polar
- 7. Do polar molecules mix well with other polar molecules or do they mix better with non-polar molecules? Polar molecules mix well with other polar molecules. Non-polar molecules mix well with other non-polar molecules. Polar and non-polar molecules do not mix well together.
- 8. Are most molecules in the body polar or non-polar? Most molecules in the body are polar.
- 9. What is the only major class of molecules in the body that are Non-polar. The only class of molecules in the body that is non-polar are fats.

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