

# CAMPBELL BIOLOGY CHAPTER 3 PRACTICE TEST QUESTIONS AND ANSWERS

Cells are surrounded by water, and cells themselves consist of about 70 to 95% water. As a result, \_\_\_\_\_. ( Concept 3.1)

- A) a variety of nutrient molecules is readily available as dissolved solutes
- B) waste products produced by cell metabolism can be easily removed
- C) the temperature of living things tends to change relatively slowly
- D) dissolved substances can be easily transported within a cell or between cells in multicellular organisms
- E) All of the listed responses are correct. - Answer-E

Water is a polar molecule. This means that \_\_\_\_\_.

- A) the opposite ends of the molecule have opposite electrical charges
- B) the atoms in water have equal electronegativities
- C) water is one of the many hydrophobic molecules
- D) water molecules are linear, like a pole
- E) All of the listed responses are correct. - Answer-A

The partial charges on a water molecule occur because of \_\_\_\_\_. ( Concept 3.1)

- A) the high electronegativity of hydrogen
- B) the achievement of a stable configuration by one atom of a bond but not by the other partner
- C) widespread ionization
- D) covalent bonding
- E) the unequal sharing of electrons between the hydrogen and the oxygen atoms of a water molecule - Answer-E

In a group of water molecules, hydrogen bonds form between \_\_\_\_\_. ( Concept 3.1)

- A) two hydrogen atoms in different water molecules
- B) the hydrogen atoms in a single water molecule
- C) the oxygen atoms in different water molecules
- D) the oxygen atom in one water molecule and a hydrogen atom in another water molecule
- E) None of the listed responses is correct. - Answer-D

Which of the following accurately relates the emergent properties of water to the effects of global warming in the Arctic?

# Campbell Guided Answers

**N Noddings**



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