

Points Awarded	69.75
Points Missed	30.25
Percentage	69.8%



1.

Many of water's special properties such as cohesion and high heat of vaporization, result from:

- A) the covalent bonds between oxygen and hydrogen within the water molecule.
- B) the small size of a water molecule.
- C) the tendency of water molecules to repel each other.
- D) the hydrogen bonds between water molecules.

Points Earned: 2.5/2.5

Correct Answer(s): D



2.

In experiments done in the 1920s to study the bacterium that causes pneumonia, Frederick Griffith found that harmless R strain bacteria became lethal S strain bacteria when mixed with a culture of heat-killed S strain bacteria. This is because bacteria can undergo:

- A) binary fission.
- B) conjugation.
- C) transformation.
- D) transduction.

Points Earned: 2.5/2.5

Correct Answer(s): C



3.

You are examining this recent core from a pine tree in North America. It spans three decades, 1950 to 1980. Which of the following statements is supported by the pattern of the rings in this core?

- A) The climate conditions were very consistent across all three decades.
- B) The climate was cooler and drier in the 1970s than in the 1960s and 1950s.
- C) The climate was cooler and drier in the 1950s than in the 1960s and 1970s.
- D) The climate was very warm and wet only during the 1960s.

Points Earned: 2.5/2.5

Correct Answer(s): C



4.

Which of these statements about obligate anaerobes is true?

- A) They cannot grow in the presence of oxygen and some species may die.
- B) They must have oxygen to survive.
- C) They will use oxygen if it is present, but can survive without it.
- D) They generate oxygen through photosynthesis.

Points Earned: 2.5/2.5

Correct Answer(s): A



5.

_____ is not a function of proteins.

- A) Storage of genetic information in the nucleus
- B) Digestion of food
- C) Transportation of oxygen in the circulatory system
- D) Coloration of the skin and hair

Points Earned: 2.5/2.5

Correct Answer(s): A



6.

Which of the following statements about natural selection is most accurate?

- A) Natural selection is a random process.
- B) Natural selection results in organisms that are perfectly adapted to their environment.
- C) Mammals in cold climates need warm fur so they evolve thick coats.
- D) Natural selection can only act on populations with genetic variation.

Points Earned: 0.0/2.5

Correct Answer(s): D



7.