1. Which of the following can potentially function like animal lysosomes?

    a. Pili.
    b. Flagella.
    c. Vacuoles.
    d. Peroxisomes.

2. Which of the following supports the endosymbiotic theory?

    a. All prokaryotes lack the ability to form internal membranes; this is strictly a eukaryotic ability.
    b. Even today, some prokaryotes contain chloroplasts for photosynthesis.
    c. rRNAs in chloroplasts are more similar to prokaryotic rRNAs than to eukaryotic rRNAs.
    d. Even today, mitochondria and chloroplasts have a single lipid bilayer.

3. Which of the following is most likely found on a sugar present in DNA?
    a. A nitrogenous base covalently attached to the 5' carbon.
    b. An oxygen covalently attached to the 6' carbon.
    c. An oxygen covalently attached to the 1' carbon.
    d. A phosphate group covalently attached to the 2' carbon.

4. In comparing a person's skin cells to their neurons, which of the following should be the most similar?