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#### Keystone Practice Questions

 Living organisms can be classified as prokaryotes or eukaryotes. Which two structures are common to both prokaryotic and eukaryotic cells?

A. cell wall and nucleus

B. cell wall and chloroplast

C. plasma membrane and nucleus

D. plasma membrane and cytoplasm

Alveoli are microscopic air sacs in the lungs of mammals. Which statement best describes how the structure of the alveoli allows the lungs to function properly?

A. They increase the amount of energy transferred from the lungs to the blood.

B. They increase the flexibility of the lungs as they expand during inhalation.

C. They increase the volume of the lungs, allowing more oxygen to be inhaled.

D. They increase the surface area of the lungs, allowing efficient gas exchange.

Which statement best describes an effect of the low density of frozen water in a lake?

A. When water freezes, it contracts, decreasing the water level in a lake.

B. Water in a lake freezes from the bottom up, killing most aquatic organisms.

C. When water in a lake freezes, it floats, providing insulation for organisms below.

D. Water removes thermal energy from the land around a lake, causing the lake to freeze.

4. \_\_\_\_ Carbohydrates and proteins are two types of macromolecules. Which functional characteristic of proteins distinguishes them from carbohydrates?

A. large amount of stored information

B. ability to catalyze biochemical reactions

C. efficient storage of usable chemical energy

D. tendency to make cell membranes hydrophobic

5. \_\_\_ Using a microscope, a student observes a small, green organelle in a plant cell. Which energy transformation most likely occurs first within the observed organelle?

A. ATP to light

B. light to chemical

C. heat to electrical

D. chemical to chemical

6. \_\_\_ Photosynthesis and cellular respiration are two major processes of carbon cycling in living organisms. Which statement correctly describes one similarity between photosynthesis and cellular respiration?

A. Both occur in animal and plant cells.

B. Both include reactions that transform energy.

C. Both convert light energy into chemical energy.

D. Both synthesize organic molecules as end products.

7. \_\_\_ A protein in a cell membrane changed its shape to move sodium and potassium ions against their concentration gradients. Which molecule was most likely used by the protein as an energy source?

A. ATP

C. catalase

D. amylase

8. \_\_\_\_ Carbon dioxide and oxygen are molecules that can move freely across a plasma membrane. What determines the direction that carbon dioxide and oxygen molecules move?

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