

Biology 30

Organization of Life Outcome 3 – Cell structures and Processes Review Questions

1. What is chemosynthesis and why is it thought that it may be the way life started on earth?
2. For photosynthesis:
 - a. What is it?
 - b. Where does it occur?
 - c. Why is it important?
 - d. What is the formula?
 - e. Where is each reactant used, and where is each product formed?
3. For cellular respiration:
 - a. What is it?
 - b. Where does it occur?
 - c. Why is it important?
 - d. What is the formula?
 - e. Where is each reactant used, and where is each product formed?
4. What is a ribosome and why is it important?
5. What are the three main parts that make up deoxyribonucleic acid?
6. What are the layers in a cell membrane? How are particles moved through the membrane?
7. If a cell wall contains the following molecule, what kingdom is the organism from?
 - a. Chitin
 - b. Cellulose
 - c. Peptidoglycan
8. What are the differences between halophiles, thermophiles, and methanogens?