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## Chapter Review

### Review Vocabulary

Choose the letter of the best answer.

1. Proteins that will be released from the cell are assembled at the  
A. central vacuole.  
B. mitochondria.  
C. rough endoplasmic reticulum.
2. The diffusion of water through a selectively permeable membrane is called  
A. homeostasis.  
B. pinocytosis.  
C. osmosis.

Match the vocabulary term to its definition.

3. \_\_\_\_\_ A cell that has DNA but no nucleus.                      a. receptor
4. \_\_\_\_\_ A complex of protein and RNA that assembles proteins.                      b. prokaryote
5. \_\_\_\_\_ A protein on or in a cell that binds a chemical signal.                      c. ribosome

### Review Key Questions

Provide evidence and details to support your answers.

6. What are the three main parts of the cell theory?

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7. Plants and animals are both made up of eukaryotic cells. Does this mean they have the same kinds of organelles? Why or why not?

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8. A cell makes and secretes a certain protein. Explain where it is made, how it is secreted from the cell, and what kind of transport is used.

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9. Why do prokaryotes not have cell specialization?

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