

**SECTION 4-1 REVIEW**

# INTRODUCTION TO THE CELL

**VOCABULARY REVIEW** Define the following terms.

1. organelle \_\_\_\_\_  
\_\_\_\_\_
2. nucleus \_\_\_\_\_  
\_\_\_\_\_
3. eukaryote \_\_\_\_\_  
\_\_\_\_\_
4. prokaryote \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

- \_\_\_\_\_ 1. One early piece of evidence supporting the cell theory was the observation that
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| a. only plants are composed of cells.  | c. cells come from other cells.        |
| b. only animals are composed of cells. | d. animal cells come from plant cells. |
- \_\_\_\_\_ 2. Cells are limited in size by the
- |  |  |
|--|--|
| a. rate at which substances needed by the cell can enter the cell through its surface. | c. amount of material the cell can collect to fill itself. |
| b. rate at which the cell can manufacture genetic information.                         | d. amount of cell membrane the cell can produce.           |
- \_\_\_\_\_ 3. The diameter of most plant and animal cells is about
- |                               |                             |               |                 |
|-------------------------------|-----------------------------|---------------|-----------------|
| a. 0.1 to 0.2 $\mu\text{m}$ . | b. 10 to 50 $\mu\text{m}$ . | c. 1 to 2 mm. | d. 10 to 50 mm. |
|-------------------------------|-----------------------------|---------------|-----------------|
- \_\_\_\_\_ 4. The characteristic of a nerve cell that relates directly to its function in receiving and transmitting nerve impulses is its
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|---------------------|--|
| a. long extensions. | c. ability to change shape.                |
| b. flat shape.      | d. ability to engulf and destroy bacteria. |
- \_\_\_\_\_ 5. One difference between eukaryotic and prokaryotic cells is that only
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|---|---|
| a. prokaryotic cells are surrounded by a cell membrane. | c. eukaryotic cells have genetic information.       |
| b. prokaryotic cells have a nucleus.                    | d. eukaryotic cells have membrane-bound organelles. |