



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 A chewing insect damages the **vascular tissue** of a plant stem. This damage will most directly affect the
- A excretion of carbon dioxide by root cells
  - B conduction of water and minerals between the roots and leaves
  - C synthesis of auxins in the roots
  - D diffusion of oxygen between root cells



- 2 Which statement correctly describes a characteristic of **cells** in the **stems** of plants?
- A They exchange gases through stomates.
  - B They exchange gases by diffusion directly between the cells and root hairs.
  - C They carry on photosynthesis and do not exchange gases.
  - D They carry on respiration and exchange gases through lenticels.

- 3 **Leaves** at the top of a giant redwood tree receive **water** from the
- A vascular tissue in the branches, trunk, and roots
  - B epidermal cells in the trunk



- 4 **Gases** move into intercellular spaces in leaves through **openings** known as
- A stomates
  - B lenticels



## PREVIEW

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- B both carbon dioxide and oxygen
- C oxygen, only
- D neither carbon dioxide nor oxygen



- gas exchange
- B store food for winter dormancy
  - C undergo mitotic cell division
  - D give support to the veins in the leaf

- 9 In most plants, specialized **epidermal cells** which absorb water and minerals are found in the
- A roots
  - B stems
  - C lenticels
  - D flowers



- 10 The **exchange of oxygen** and **carbon dioxide** between internal leaf cells and the external environment will occur most efficiently if
- A the surfaces of these cells are dry and the stomates are closed
  - B these cells are dry and the stomates are open
  - C the surfaces of these cells are moist and the stomates are open
  - D the cells are moist and the stomates are closed



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8

**A** gas exchange

**B** store food for winter dormancy

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