

# Plant Transport Systems

Biology · Practice Test · 15 Questions

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## 1. What is the primary function of the phloem?

- A) Transporting water
- B) Transporting food
- C) Supporting the plant
- D) Absorbing minerals

## 2. In which directions can transport occur in the phloem?

- A) Only upward
- B) Only downward
- C) Upward and downward
- D) Horizontal only

## 3. What are the cell walls of the phloem described as?

- A) Thick-walled
- B) Thin-walled
- C) Hardened
- D) Non-existent

## 4. What is the main function of root hairs?

- A) Producing sugar
- B) Absorbing water and minerals
- C) Storing carbon dioxide
- D) Transporting food

## 5. How do root hairs benefit a plant?

- A) They increase absorption area
- B) They produce oxygen
- C) They prevent transpiration
- D) They provide structural support

## 6. What substances are moved by the plant transport system?

- A) Only water
- B) Only sugar
- C) Water, minerals, sugars, and nutrients
- D) Only oxygen

**7. What is transpiration?**

- A) The intake of sunlight
- B) The loss of water vapor from leaves
- C) The production of sugar
- D) The growth of roots

**8. What is the 'transpiration pull'?**

- A) A force pulling water downward
- B) A force moving water upward through xylem
- C) A force pushing sugar to roots
- D) A force absorbing minerals

**9. What does the xylem transport?**

- A) Food
- B) Water and dissolved minerals
- C) Oxygen
- D) Sugar

**10. Which xylem element is responsible for support?**

- A) Tracheids
- B) Vessel elements
- C) Xylem fibers
- D) Xylem parenchyma

**11. What is the function of xylem parenchyma?**

- A) Water transport
- B) Storage
- C) Support
- D) Water conduction

**12. What do companion cells do in the phloem?**

- A) Assist sieve tubes
- B) Store water
- C) Provide support
- D) Absorb minerals

**13. Which phloem element is responsible for food transport?**

- A) Companion cells
- B) Sieve tubes
- C) Phloem fibers
- D) Phloem parenchyma

**14. What is the function of phloem parenchyma?**

- A) Food transport
- B) Food storage
- C) Support
- D) Assisting sieve tubes

**15. What is the function of phloem fibers?**

- A) Food storage
- B) Food transport
- C) Support
- D) Assisting sieve tubes