

# Plant Transport Systems

Biology · Answer Key · 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