

Name _____

Period _____

Ms. Foglia

Date _____

AP: CHAPTER 36: TRANSPORT IN PLANTS

1. What is the role of each of the following in plant transport?

a. Transpiration _____

b. Xylem _____

c. Phloem _____

2. What is the trend in atmospheric CO₂ seasonally and over the past 50 years?

3. How does chemiosmosis bring the following into the plant cell?

a. Cations _____

b. Anions _____

c. Sucrose _____

4. What is the mechanism that creates the gradient in chemiosmosis?

5. What is believed to be responsible for the rapid water exchange in plant cells?

6. Define the following methods of lateral transport.

a. Transmembrane _____

b. Symplastic _____

c. Apoplastic _____

7. What is the role of the endodermis in the root?

8. How do mycorrhizae help plants?

9. Describe the mechanisms of water transport:

a. Transpiration _____

b. Cohesion and Adhesion _____

c. Root Pressure _____

10. What mechanism causes stomates to open when the guard cells are in "good conditions"?

11. Describe the pressure flow mechanism of sugar transport.
