

## Hydroponic Quiz 3 – leaf & Stem functions

TOTAL /30

Name: \_\_\_\_\_

1. What is the main purpose of a leaf? (1 points)
  
  
  
  
  
  
  
  
  
  
2. Is the midrib and external structure of a leaf? \_\_\_\_\_. List the function(s) of the midrib. (2 points)
  
  
  
  
  
  
  
  
  
  
3. Why do some plants have very large blades? (1 points)
  
  
  
  
  
  
  
  
  
  
4. What is a petiole and describe its functions. (2 points)
  
  
  
  
  
  
  
  
  
  
5. Name the two groups that flowering plants are categorized into according to the vein patterns found in their leaves. (2 points)

6. Name any 2 internal structures of a leaf and their corresponding functions. (2 points)

7. Compare the vein patterns of monocots and dicots. (1 point)

8. List the major leaf arrangements. (2 points)

9. Circle the correct answer for the following statement; (1 point)

The channels that distribute the sap or circulatory fluids along a leaf are called\_\_\_\_\_

a. tunnels   b. Veins   c. margins

10. What does the distance between bud scale scars represents on the stem of a plant? (1 point)

11. What is the name of the structure on the outside of the stem, which is the same type of structure that the tip of the root has, and is responsible for the growth in the length of the plant? (2 points)

12. Provide the definition for ***Translocation*** - (1 point)

13. Why is it important or helpful to know the many different kinds of structures on a plants stem? (1 point)

14. What is the difference between the phloem and xylem in a plant? (2 points)

15. Why is it important to fill out and keep a detail log sheet (the sheets I provided on the clipboards for each hydroponic system) for your hydroponic garden/system? (5 points)

16. List at least three of the categories/columns (information to be filled out) that are on the charts attached to the clipboards for your hydroponic system. (5 points)