Student Name: _____ Period: _____

Plant Structure – Anatomy

http://bit.ly/2o5vzKv

1. What do plants use to make up their structure

_____

_____

_____

2. What are the two groups of flowering plants?
   a. _____
   b. _____
3. What is the meaning of the term "Cot"?

_____

_____

_____

4. How many "cots "are there in Mono cots vs. Dicots?

_____

_____

_____

5. What are the differences between dandelions and grass?
   a. Leaf differences: _____
      _____
      _____
   b. Flower differences: _____
      _____
      _____
   c. Root differences: _____
      _____
      _____
6. What is Phytotomy? (look up the dictionary definition)

_____

_____

_____

7. What is the root system?

_____

_____

_____

8. What is the shoot system?

_____

_____

_____

9. Define Nodes

_____

_____

_____

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10. Define internodes

_____
_____
_____

11. What are the different categories of plant tissue?
    a.
    b.
    c.

12. What are the parts of the Dermis and its function?

_____
_____
_____

13. What are the parts of the Ground tissue and what are their functions?

_____
_____
_____

14. What are the parts of the vascular tissue and what are their functions?

_____
_____
_____

15. Draw and label the cross section of the leaf:

16. List the parts of the leaf you have drawn and labeled and describe their functions.

_____
_____
_____
_____
_____
_____

17. What is the function and structure of the stomata?

_____
_____
_____

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18. What is the function of the cuticle?

_____
_____
_____

19. Describe a parenchyma cell function

_____
_____
_____

20. Describe collenchyma cell function

_____
_____
_____

21. Describe sclerenchyma cell function

_____
_____
_____

22. Describe xylem cell function

_____
_____
_____

23. Describe phloem cell function

_____
_____
_____

24. How do plants grow?

_____
_____
_____

25. How does primary growth occur?

_____
_____
_____

26. Where would you expect to find meristematic tissue?

_____
_____
_____

27. What does RAM stand for?

_____
_____
_____

28. What does SAM stand for?

_____
_____
_____

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29. What does secondary growth do for plants?

_____
_____
_____

30. What creates Xylem and phloem?

_____
_____
_____

31. What does the cork cambium do?

_____
_____
_____

32. What is girdling? What is its effect on trees? Why?

_____
_____
_____

33. What is responsible for making the tree rings?

_____
_____
_____

34. What is the reproductive part of a flower male? Female?

_____
_____
_____

35. What does the anther do?

_____
_____
_____

36. What does the ovule do? And where is it found?

_____
_____
_____

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37. Describe double fertilization – create a diagram to explain the process to your self that will be clear and explanatory to anyone seeing your diagram.

38. Draw and label a seed and describe the origin of each part from the original ovary.