Name:

Plant Unit

Study Guide

1. Define angiosperms and gymnosperms. What is the major difference?

2. Define vascular plants and nonvascular plants. What is the major difference?

3. What part of the plant anchors and provides water?

4. Describe the process of

transpiration

cellular respiration

photosynthesis

5. What are the cambium, xylem, and phloem of a plant?

6. What are the stomata on a leaf?

7. What is the role of the leaf’s cuticle?

8. Define asexual and sexual reproduction. Give advantages and disadvantages of each.

9. Describe each of the following types of asexual reproduction

budding

splitting

vegetative propagation

10. Describe the difference between cross-pollination and self-pollination

11. Define each of the following parts of a flower AND be able to label them on a diagram.

petals

anther

nectar

stamen

pistil

filament

pollen

ovary

sepal

stigma

12. What are the names of the male and female sex cells?

13. What is a cotyledon?

14. What is the difference between a monocot and a dicot?

15. Define germination.

16. Describe alternation of generations.

17. What is a conifer?

18. What is the reproductive organ of an angiosperm?

19. Why do plants produce bright, colorful flowers and nectar?

20 Why is sexual reproduction better than asexual reproduction for ensuring the survival of a species in a changing environment?

21. Compare woody stems to soft stems. Why would some plants need one type vs the other?

22. List the 4 types of roots and describe each one.

23. Can fertilization take place without pollination occurring in flowering plants? Explain.

24. Review the activity on page 97. Understand the data that is given in the line graph (NOT the data table)