

Review Questions:

1. Name the functions of plant roots.
2. What are two functions of plant stems?
3. Name one above ground and one below ground type of stem variation.
4. What are two functions of leaves?
5. What is the name of the process in which leaves absorb sunlight to make plant food? What is the name of the process in which plants convert food into energy? Where do these two processes occur?
6. What are two names used to describe the location of plant buds?
7. When does photosynthesis occur during the course of a day? When does respiration occur during the course of a day?
8. What's the difference between monoecious and dioecious plants?
9. What does cultivar mean?
10. What is a vascular bundle?
11. Name the male and female reproductive organs of a flower.
12. How is pollination different from sexual fertilization?
13. What is the function of a seed?
14. Describe the functions of plant auxins.
15. Name at least three parts of plant shoots.
16. What is the major difference between plant and animal cells?
17. What are four ingredients that plants need to make their own food?
18. From what source does a plant get carbon dioxide? Water?
19. What are two functions of transpiration in plants?
20. Identify three environmental factors that affect transpiration in plants.
21. What is the principal internal factor that affects plant growth and development?
22. Describe what happens to seeds when water is applied.
23. Gibberellins promote _____, while abscisic acid promotes _____.
24. Where does respiration get its substance in the plant to create energy?
25. Which hormone is a gas? What function does it have in growth regulation?
26. What makes up plant families, subfamilies and tribes?
27. What happens in xylem tissue? In phloem tissue? In meristematic tissue?
28. Give an example of a non-vascular plant.
29. What is a vacuole?
30. How is an herbaceous plant structurally different from a woody plant?
31. In respiration, what gas is expelled? Think about how that is different from how it is expelled in animals. Explain.
32. What are entomology, agronomy and horticulture?
33. What is the name of the organization that provides rules to name plants?
34. Give a practical gardening example of why it is important to know how the plant is constructed and/or how it functions (e.g. grows or reproduces).