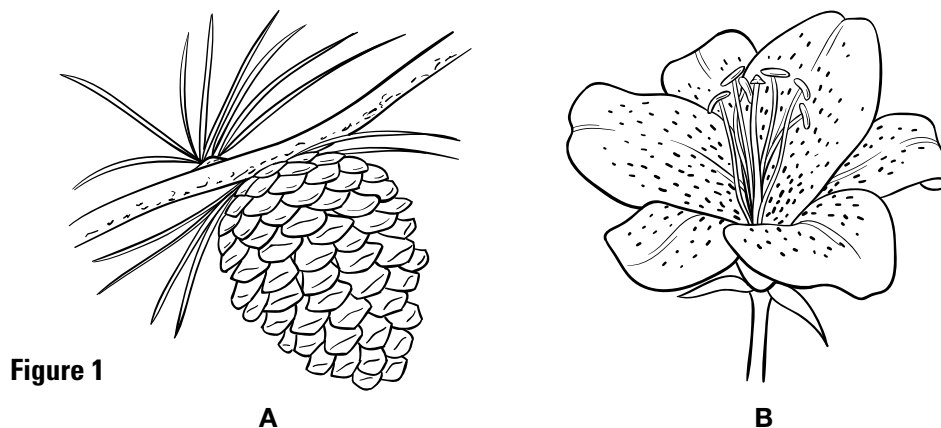


Unit 7 Plants**Unit Test A****Multiple Choice**

Write the letter that best answers the question or completes the statement on the line provided.

- ____ 1. Which of the following is NOT a characteristic of plants?
- a. unicellular
 - b. contain cell walls made of cellulose
 - c. make their own food
 - d. eukaryotes
- ____ 2. Plants that lack vascular tissue and depend on water for reproduction are classified as
- a. bryophytes.
 - b. ferns.
 - c. gymnosperms.
 - d. angiosperms.
- ____ 3. In the life cycles of the following plant groups, which have the diploid sporophyte as the dominant, recognizable stage?
- a. bryophytes only
 - b. ferns only
 - c. gymnosperms and angiosperms
 - d. ferns, gymnosperms, and angiosperms
- ____ 4. Both gymnosperms and angiosperms
- a. require water for reproduction.
 - b. reproduce with flowers.
 - c. produce seeds.
 - d. reproduce with cones.
- ____ 5. All annuals
- a. are short-day plants.
 - b. complete a life cycle in one growing season.
 - c. reproduce with cones.
 - d. require water for reproduction.
- ____ 6. Which tissue systems make up roots, stems, and leaves?
- a. xylem and phloem
 - b. parenchyma, collenchyma, and sclerenchyma
 - c. dermal, vascular, and ground
 - d. nodes, internodes, and buds

- ___ 7. Unlike primary growth in stems, secondary growth
 - a. causes an increase in length.
 - b. causes an increase in width.
 - c. is produced by the apical meristem.
 - d. occurs in all seed plants.
- ___ 8. On a hot and sunny day, a wilting plant will
 - a. release pollen.
 - b. have open stomata.
 - c. have closed stomata.
 - d. become dormant.
- ___ 9. Water moves from the roots to the leaves
 - a. by root pressure, capillary action, and transpiration.
 - b. as described by the pressure-flow hypothesis.
 - c. by the force of adhesion.
 - d. by root pressure alone.



- ___ 10. Which of the reproductive structures in Figure 1 is pollinated by wind?
 - a. A only
 - b. B only
 - c. both A and B
 - d. neither A nor B
- ___ 11. Which of the following are fruits?
 - a. peaches
 - b. beans
 - c. tomatoes
 - d. all of the above

- ___12. In plant propagation, horticulturists produce plants that are
- genetically different from the parent.
 - genetically identical to the parent.
 - grown from seeds.
 - grown from stolons.
- ___13. The plant hormone that stimulates the growth of lateral buds is
- auxin.
 - cytokinin.
 - gibberellin.
 - ethylene.
- ___14. In preparation for winter, deciduous plants
- flower during short days.
 - increase their rate of photosynthesis.
 - produce less ethylene and more auxin.
 - form waxy scales around new leaf buds.
- ___15. Like parasites, carnivorous plants have
- specialized cells to pump out salt.
 - extensive root systems.
 - specialized features to obtain nutrients.
 - air-filled spaces in their tissues.

Completion

Complete each statement on the line provided.

16. The plant life cycle alternates between the haploid _____ stage and the diploid _____ stage.
17. The first plants were limited in height because they lacked _____.
18. The functions of _____ include absorbing water and dissolved nutrients from the soil.
19. As angiosperm seeds mature, the _____ thicken to form a fruit that encloses the developing seeds.
20. Plant _____ demonstrate the ability of plants to respond to external stimuli, such as gravity, light, and touch.

Short Answer

In complete sentences, write the answers to the questions on the lines provided.

21. What must plants have to survive?

22. List five ways in which monocots differ from dicots.

23. What is the function of meristematic tissue?

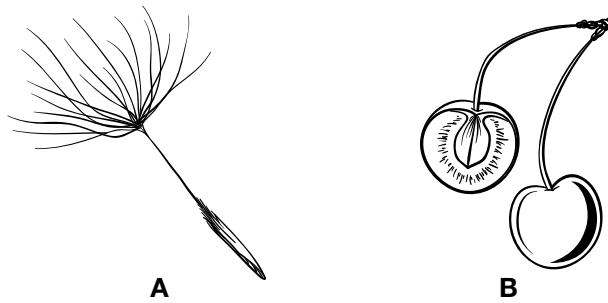


Figure 2

A

B

24. How are the seeds in Figure 2 dispersed?

25. How do plants defend themselves from insects?

Using Science Skills

Use the diagram below to answer the following questions on the lines provided.

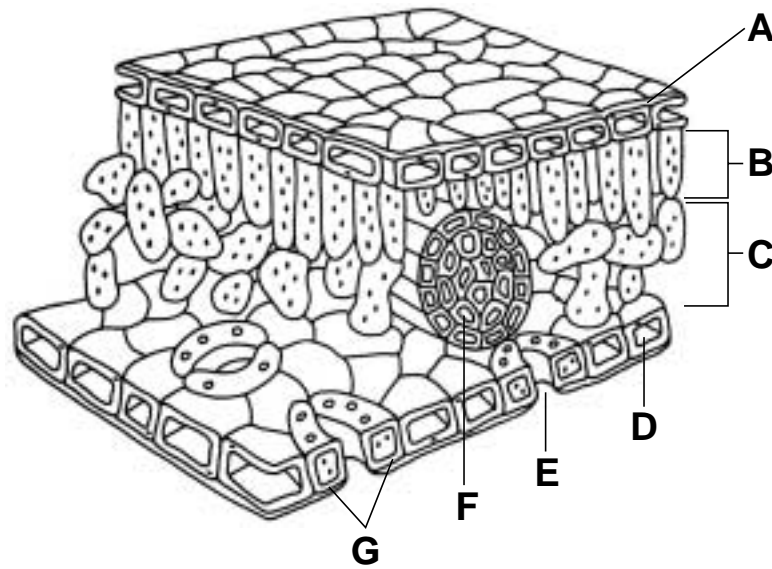


Figure 3

26. Applying Concepts What two functions does the structure in Figure 3 have?

27. Interpreting Graphics Would the structure in Figure 3 have come from a wilting plant? Explain.

28. Interpreting Graphics What labeled structure in Figure 3 transports water and the products of photosynthesis?

29. Inferring What happens in the structures labeled B and C in Figure 3 when cold weather approaches?

30. Applying Concepts If the structure in Figure 3 were part of a salt-tolerant plant, what adaptation would it have?
