

## Structure and Function in Living Systems

Name:

### Botany Practice Questions

Period:

Try these practice questions by first using just your brain. Then make sure you got the answers right by checking in Chapter 12. When you find the answer, write the page number in the parentheses found after the question.

- \_\_\_\_\_ 1. Which of the following is NOT a way that people use angiosperms? (p. \_\_\_\_\_ )  
a. for food      b. for building materials      c. for making coal      d. for clothing
- \_\_\_\_\_ 2. What plants get water and nutrients from rhizoids? (p. \_\_\_\_\_ )  
a. mosses      b. conifers      c. buttercups      d. angiosperms
- \_\_\_\_\_ 3. What plant cell part captures energy from the sun to make food? (p. \_\_\_\_\_ )  
a. chloroplasts      b. cell walls      c. cell membranes      d. vacuoles
- \_\_\_\_\_ 4. What do the sperm of seedless plants need to reach the eggs? (p. \_\_\_\_\_ )  
a. water      b. wind      c. pollen      d. birds
- \_\_\_\_\_ 5. Which of the following is NOT shared by all plants? (p. \_\_\_\_\_ )  
a. cuticles      b. photosynthesis      c. cell walls      d. flowers
- \_\_\_\_\_ 6. What does xylem do? (p. \_\_\_\_\_ )  
a. carries food      b. dissolves minerals and food      c. carries water and minerals      d. grows longer roots
- \_\_\_\_\_ 7. Which of the following are found in plant cells but NOT in animal cells? (p. \_\_\_\_\_ )  
a. chloroplasts and cell walls      c. vacuoles and eggs  
b. cell membranes and spores      d. chlorophyll and cones

*Match the correct description with the correct term. Write the letter in the space provided.*

- \_\_\_\_\_ 8. seed plant that does not flower (p. \_\_\_\_\_ )      a. phloem
- \_\_\_\_\_ 9. where sperm form in seed plants (p. \_\_\_\_\_ )      b. cotyledon
- \_\_\_\_\_ 10. where food is stored in seeds (p. \_\_\_\_\_ )      c. gymnosperm
- \_\_\_\_\_ 11. transports food molecules to all parts of a plant (p. \_\_\_\_\_ )      d. pollen

*Match the correct description with the correct term. Write the letter in the space provided.*

- \_\_\_\_\_ 12. has tissue specialized to carry water and nutrients through the plant (p. \_\_\_\_\_ )      a. seed
- \_\_\_\_\_ 13. often protects the seeds of gymnosperms (p. \_\_\_\_\_ )      b. vascular plant
- \_\_\_\_\_ 14. protects and nourishes a young sporophyte (p. \_\_\_\_\_ )      c. nonvascular plant
- \_\_\_\_\_ 15. does not have tissues specialized to carry water and nutrients (p. \_\_\_\_\_ )      d. cone

***turn over for more questions***

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*Use the terms from the following list to complete the sentences below.*

rhizomes      angiosperm      life cycle      leaves

16. Most seedless plants have two stages in their \_\_\_\_\_. (p. \_\_\_\_\_ )
17. Underground stems from which new leaves and roots grow are \_\_\_\_\_. (p. \_\_\_\_\_ )
18. A vascular plant that has flowers and fruit is called an \_\_\_\_\_. (p. \_\_\_\_\_ )
19. Chloroplasts in the cells of \_\_\_\_\_ capture energy from sunlight to make food. (p. \_\_\_\_\_ )

*Use the terms from the following list to complete the sentences below.*

root      stamen      ovary      sexual

20. When a new plant is produced from an egg and a sperm, it is \_\_\_\_\_ reproduction. (p. \_\_\_\_\_ )
21. The filament and anther are parts of the \_\_\_\_\_. (p. \_\_\_\_\_ )
22. A plant gets water and nutrients through its \_\_\_\_\_ system. (p. \_\_\_\_\_ )
23. The pistil of a flower contains the \_\_\_\_\_, which produces eggs. (p. \_\_\_\_\_ )