

Structure and Function in Living Systems

Name: _____

What is a Plant?

Period: _____

Use Chapter 12, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

animal asexually cell membrane cell walls characteristics chloroplasts cuticle
eggs gametophyte photosynthesis sexual sperm sporophyte thicker

Section 1: What Is a Plant? (p.360)

Plant Characteristics

1. All plants have certain _____ in common.

Cuticles (p.360)

2. The _____ is a waxy layer that keeps plants from drying out.

3. If the climate is dry, the plants living there will have a _____ cuticle.

Photosynthesis (p.360)

4. Organelles called _____ make plants green and capture energy from the sun.

5. What type of cells do not have chloroplasts? _____ cells

6. _____ is the process plants use to make food.

Cell Walls (p.361)

7. Because plants do not have skeletons, they need _____ to support them.

8. Look at Figure 2. A _____ lies beneath the cell wall.

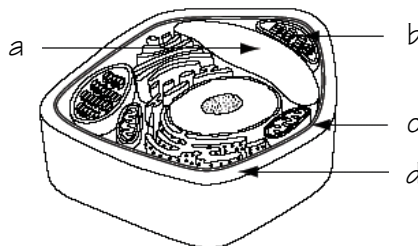
Look at Figure 2, then match the labels to the picture. Write the letters in the spaces provided.

_____ 9. cell wall

_____ 10. vacuole

_____ 11. cell membrane

_____ 12. chloroplast



Reproduction (p.361)

_____ 13. Which of the following is produced during the sporophyte stage?
a. sperm b. eggs c. spores d. sex cells

14. A spore grows into a new plant called a _____ .

15. Male gametophytes produce _____ , and _____ are made by female gametophytes.

16. If an egg is fertilized by sperm, this is called _____ reproduction.

17. A fertilized plant egg eventually grows into a _____ .

18. Most plants can reproduce sexually or _____ .

turn over for more questions

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Plant Classification (p.362)

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

- | | |
|--|----------------------|
| _____ 19. is a flowering seed plant | a. gymnosperm |
| _____ 20. does not have tissues for moving water and nutrients | b. vascular plant |
| _____ 21. is a vascular plant that has no flowers | c. angiosperm |
| _____ 22. has specialized tissues for moving water and nutrients | d. nonvascular plant |

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

- | | |
|--|----------------------------|
| _____ 23. has seeds but no flowers | a. seedless vascular plant |
| _____ 24. has vascular tissue but no seeds | b. angiosperm |
| _____ 25. has both flowers and seeds | c. gymnosperm |

The Origin of Plants (p.363)

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

ancestor cell walls green algae photosynthesis plants

26. Green algae are not _____.
27. Green algae and plants have _____ that are similar.
28. Green algae and plants both make food through _____.
29. Green algae and plants might share a common _____.
30. Look at Figure 4. Scientists think that the common ancestor of modern green algae and ferns was an ancient species of _____.