

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.

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

1. All plants share certain _____ .

Plant Characteristics

Cuticles

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

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

Photosynthesis

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.

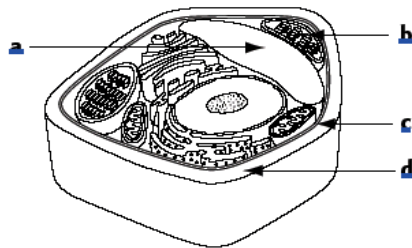
Look at Figure 2, then match the labels to the picture. Write the letters in the spaces provided.

_____ 9. cell wall

_____ 10. vacuole

_____ 11. cell membrane

_____ 12. chloroplast



Reproduction

_____ 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 a lot alike.
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 _____.