

Chapter
21
What Is a Plant?, continued
Reinforcement and Study Guide
Section 21.2 Survey of the Plant Kingdom

In your textbook, read about non-seed plants.

For each item in Column A, write the letter of the matching item in Column B.

Column A

- _____ 1. Leaves that are found on ferns
- _____ 2. Scaly structures that support male or female reproductive structures
- _____ 3. Plants with a broad, flattened body that resembles a lobed leaf
- _____ 4. Plants with three flattened rows of thin leaves
- _____ 5. Nonvascular plants that grow in damp, shady habitats and whose sporophytes resemble horns

Column B

- a. leafy liverworts
- b. thallose liverworts
- c. fronds
- d. hornworts
- e. cones

Complete the chart below by marking the appropriate columns for each division of plants.

| Division | Vascular | Nonvascular | Non-seed Plants | Seeds in Fruits | Seeds in Cones |
|-------------------|----------|-------------|-----------------|-----------------|----------------|
| 6. Hepatophyta | | | | | |
| 7. Anthocerophyta | | | | | |
| 8. Bryophyta | | | | | |
| 9. Psilophyta | | | | | |
| 10. Lycophyta | | | | | |
| 11. Sphenophyta | | | | | |
| 12. Pterophyta | | | | | |
| 13. Cycadophyta | | | | | |
| 14. Gnetophyta | | | | | |
| 15. Ginkgophyta | | | | | |
| 16. Coniferophyta | | | | | |
| 17. Anthophyta | | | | | |

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*continued***

In your textbook, read about non-seed plants.

For each answer given below, write an appropriate question.

18. Answer: Vascular plants that have neither roots nor leaves

Question: _____

19. Answer: Vascular plants that have hollow, jointed stems surrounded by whorls of scalelike leaves, whose cells contain large deposits of silica

Question: _____

20. Answer: Plants that may be the ancestors of all plants

Question: _____

21. Answer: Hard-walled reproductive cells found in non-seed plants

Question: _____

22. Answer: Nonvascular plants that rely on osmosis and diffusion to transport water and nutrients, although some members have elongated cells that conduct water and sugars

Question: _____

In your textbook, read about seed plants.

Use each of the terms below just once to complete the passage.

Anthophyta

Cycadophyta

Gnetophyta

Coniferophyta

Ginkgophyta

Seed plants are classified into five divisions. Plants from the **(23)** _____ division are palmlike trees with scaly trunks and are often mistaken for ferns or small palm trees. There is only one living species in the **(24)** _____ division. The members of the **(25)** _____ division are the largest, most diverse group of seed plant on Earth and are commonly known as the flowering plants. Three distinct genera make up the plant division called **(26)** _____. Species of the **(27)** _____ division can be identified by the characteristics of their needlelike or scaly leaves.