

# Structure and Function in Living Systems

Name:

## Seed Plants

Period:

Use Chapter 12, Section 3 of your textbook to answer the questions below.

### Section 3: Seed Plants (p.368)

- \_\_\_\_\_ 1. What types of plants produce seeds?
- a. gymnosperms and angiosperms
  - b. ferns and horsetails
  - c. nonvascular plants
  - d. mosses and liverworts

### Characteristics of Seed Plants

2. There are \_\_\_\_\_ stages in the life cycle of a seed plant.
3. Young sporophytes are nourished and protected by \_\_\_\_\_ .
- \_\_\_\_\_ 4. Which of the following do not live independently in seed plants?
- a. stems
  - b. sporophytes
  - c. gametophytes
  - d. young leaves
5. What do the sperm of seedless plants need to reach the eggs? \_\_\_\_\_
6. Inside what structure do the sperm of seed plants form? \_\_\_\_\_

### The Structure of Seeds (p.369)

7. The joining of a sperm and an egg is called \_\_\_\_\_ .
- \_\_\_\_\_ 8. When do seeds form?
- a. after fertilization
  - b. when the sperm swims to the egg
  - c. before fertilization
  - d. before pollen forms
9. A young plant in a seed is called a \_\_\_\_\_ .
10. The \_\_\_\_\_ is the seed part where food is stored.
11. The \_\_\_\_\_ is protection for a plant in a seed.
- \_\_\_\_\_ 12. What is an advantage of seeds over spores?
- a. Food is stored in the seed.
  - b. Animals leave seeds alone.
  - c. Seeds grow in damp places.
  - d. Seeds stay in one place.
- \_\_\_\_\_ 13. What do animals do that helps seeds?
- a. keep them from growing
  - b. leave them alone
  - c. spread them efficiently
  - d. destroy them



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