

# Structure and Function in Living Systems

Name: \_\_\_\_\_

## Gymnosperms & Angiosperms

Period: \_\_\_\_\_

Use Chapter 12, Section 3 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

cone    female    flowers    fruit    male    pollination    sexual    sperm

### Gymnosperms (p.370)

1. Gymnosperms are seed plants that do not have \_\_\_\_\_ or \_\_\_\_\_.
2. The seeds of a gymnosperm are usually found in a \_\_\_\_\_.

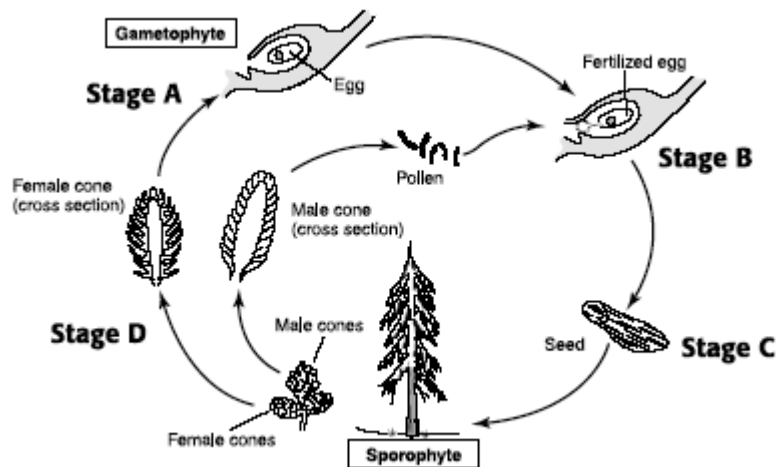
### The Importance of Gymnosperms (p.370)

- \_\_\_\_\_ 3. Which of the following is NOT a human use for gymnosperms?
- |  |                                      |
|--|--------------------------------------|
| a. building materials and paper products | c. anticancer and anti-allergy drugs |
| b. a source of resin for paint and soap  | d. food                              |

### Life Cycle of Gymnosperms (p.371)

4. Conifers have both \_\_\_\_\_ and \_\_\_\_\_ cones.
5. Pollen grains have \_\_\_\_\_ in them.
6. When wind carries pollen from male cones to female cones, it is called \_\_\_\_\_.
7. Pollination is a kind of \_\_\_\_\_ reproduction.

Use the figure below and Figure 4 in your book to answer questions 8 through 11.



8. Fertilization occurs at stage \_\_\_\_\_.
9. Sex cells produced at stage \_\_\_\_\_.
10. The fertilized egg develops into a young sporophyte at stage \_\_\_\_\_.
11. Spores are produced at stage \_\_\_\_\_.

turn over for more questions

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Period:

flowers flowers food food fruit fur pollen pollen seeds wind

#### Angiosperms (p.372)

12. Angiosperms have both \_\_\_\_\_ and \_\_\_\_\_.

#### Reproduction in Angiosperms (p.372)

13. The reproductive structures of angiosperms are \_\_\_\_\_.

14. Animals may be attracted to flowers and carry \_\_\_\_\_ from flower to flower.

15. Look at Figure 5. The bee will both take away and leave \_\_\_\_\_ at each flower.

16. Angiosperm seeds are surrounded by \_\_\_\_\_.

17. Some fruits and seeds are blown away by the \_\_\_\_\_.

18. Some animals eat fruit and then get rid of the \_\_\_\_\_.

19. Burrs (a kind of fruit) stick to the \_\_\_\_\_ of animals.

#### Two Kinds of Angiosperms (p.372)

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

\_\_\_\_\_ 20. a kind of seed with one cotyledon                      a. eudicot

\_\_\_\_\_ 21. a kind of seed with two cotyledons                      b. monocot

#### The Importance of Angiosperms (p.373)

22. Flowering plants give many land animals \_\_\_\_\_ to survive.

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

\_\_\_\_\_ 23. flowering plant used for building material                      a. corn

\_\_\_\_\_ 24. flowering plant used to make clothing                      b. oak tree

\_\_\_\_\_ 25. flowering plant grown for food                      c. cotton