

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 do not have _____ or _____ .
2. The seeds of a gymnosperm are usually found in a _____ .

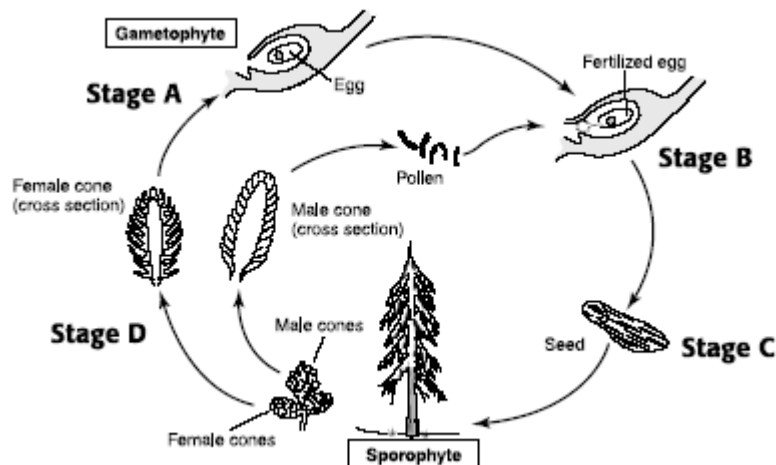
The Importance of Gymnosperms

- _____ 3. Which of the following is NOT a human use for gymnosperms?
- a. building materials and paper products
 - b. a source of resin for paint and soap
 - c. anticancer and antiallergy drugs
 - 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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Some terms may be used more than once.

flowers food fruit fur pollen seeds wind

Angiosperms (p.372)

12. Angiosperms have both _____ and _____.

Reproduction in Angiosperms

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

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