

Chapter 21 Fungi

Section 21-1 The Kingdom Fungi (pages 527-529)

This section describes the defining characteristics of fungi. It also describes the internal structure of a fungus and explains how fungi reproduce.

What Are Fungi? (page 527)

1. Circle the letter of each sentence that is true about fungi.
 - a. They are heterotrophs.
 - b. They have cell walls.
 - c. They are photosynthetic.
 - d. They are eukaryotic.
2. The cell walls of fungi are made of a complex carbohydrate called _____.
3. How do fungi digest their food? _____

4. Is the following sentence true or false? Some fungi are parasites. _____

Structure and Function of Fungi (pages 527-528)

5. Which group of fungi are not multicellular? _____
6. What are hyphae? _____

7. How thick is each hypha? _____
8. In some fungi, what divides the hyphae into cells containing one or two nuclei?

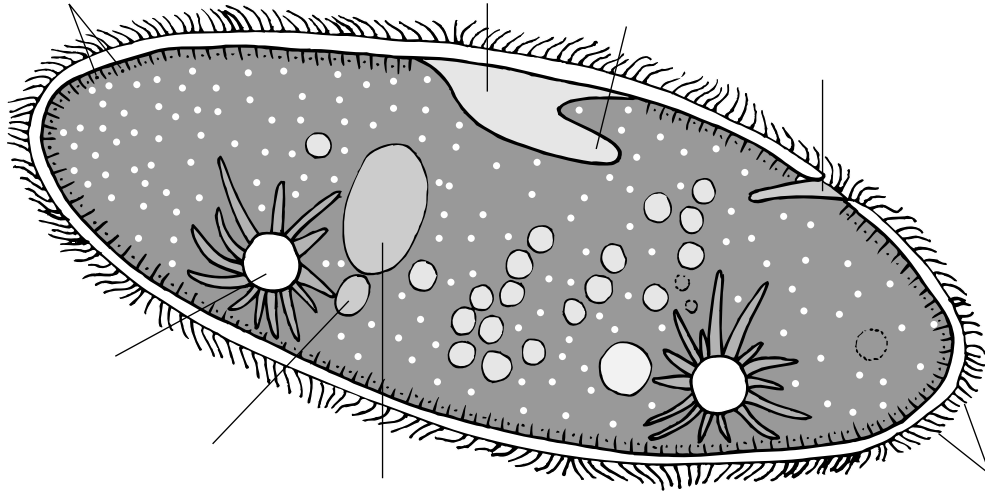
9. What is a mycelium? _____

10. Why is a mycelium well suited to absorb food? _____

11. What is a fruiting body of a fungus? _____

12. What is a fairy ring, and why does it form? _____

13. Label the parts of the fungus.



Reproduction in Fungi (pages 528–529)

14. Is the following sentence true or false? Most fungi can only reproduce asexually.

15. How does asexual reproduction occur in fungi? _____

16. In some fungi, spores are produced in structures called _____.

17. Where are sporangia found in a fungus? _____

18. Sexual reproduction in fungi usually involves two different _____.

19. What is a gametangium? _____

20. How does a zygote form in fungal sexual reproduction? _____

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21. Circle the letter of each sentence that is true about sexual reproduction in fungi.
- a. The zygote is often the only diploid cell in the fungus's entire life cycle.
 - b. Mating types are called male and female.
 - c. Gametes of both mating types are about the same size.
 - d. One mating type is a "+" (plus) and the other is a "-" (minus).

How Fungi Spread (page 529)

22. Why do molds seem to grow in any location that has the right combination of moisture and food? _____

23. Is the following sentence true or false? The spores of many fungi scatter easily in the wind. _____

24. For a fungal spore to grow, where must it land? _____
