

Chapter 31 Study Guide

1. Fungi have an extremely high surface-to-volume ratio. What is the advantage of this characteristic to an organism that gets most of its nutrition through absorption?
- A) The high ratio allows for more material to be acquired from the surroundings and transported through the cell membrane.
 - B) The lower volume prevents the cells from drying out too quickly, which can interfere with absorption.
 - C) This high ratio creates more room inside the cells for additional organelles involved in absorption.
 - D) This high ratio means that fungi have a thick, fleshy structure that allows the fungi to store more of the food it absorbs.

Answer: A

2. What are the filamentous mats formed by most fungi called?

- A) mycelia
- B) hyphae
- C) haustoria
- D) arbuscles

Answer: A

3. A fungal spore germinates, giving rise to a mycelium that grows outward into the soil surrounding the site where the spore originally landed. Which of the following accounts for the outward growth of the mycelium?

- A) karyogamy
- B) mycelial flagella
- C) breezes distributing spores
- D) cytoplasmic streaming in hyphae

Answer: D

4. Which of the following best explains how mycorrhizal fungi are more efficient than plants at acquiring mineral nutrition from the soil?

- A) Hyphae are 100 to 1,000 times larger than plant roots.
- B) Hyphae have a smaller surface area-to-volume ratio than do the hairs on a plant root.
- C) Mycelia are able to grow in the direction of food.
- D) Fungi secrete extracellular enzymes that can break down large molecules.

Answer: D

5. Plasmogamy can directly result in which of the following types of cells?

- A) cells with a single haploid nucleus or dikaryotic cells
- B) heterokaryotic cells or dikaryotic cells
- C) heterokaryotic cells or cells with two diploid nuclei
- D) dikaryotic cells or cells with two diploid nuclei

Physics Chapter 31 Study Guide

John R. Gordon



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