

## Chapter 31 Study Guide

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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

**Rosina Ehmann**



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