

Name: _____ Date: _____

Operation Petri Dish: A 7th Grade Microbe Hunters Quiz

Students practice identifying fundamental microbial structures and their ecological roles through a foundational recall-based assessment.

1. Which of these specialized tools is most likely used by a scientist to view the tiny details of a tobacco mosaic virus?

- A. Hand lens
- B. Electron microscope
- C. Glass magnifying jar
- D. Binoculars

2. The thick-walled 'survival pods' that some bacteria create to stay alive in harsh conditions are called _____.

- A. Seeds
- B. Endospores
- C. Armor plates
- D. Chloroplasts

3. True or False: Most types of bacteria on Earth are harmful pathogens that cause disease in humans.

- A. True
- B. False

4. A scientist finds a single-celled organism in a pond that uses a long, whip-like tail to move. What is this tail called?

- A. Cilia
- B. Pseudopod
- C. Flagellum
- D. Tentacle

5. Which of these microorganisms is responsible for making bread dough rise by releasing carbon dioxide gas?

- A. Amoeba
- B. E. coli
- C. Yeast
- D. Cyanobacteria

6. Microbes that can make their own food using sunlight, such as Diatoms, are known as _____.

- A. Decomposers
- B. Producers
- C. Consumers

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D. Scavengers

7. True or False: Viruses are considered living things by all scientists because they can reproduce on their own.

- A. True
- B. False

8. When a bacterium divides into two identical daughter cells, what is this process called?

- A. Binary fission
- B. Pollination
- C. Fertilization
- D. Metamorphosis

9. Penicillin is a famous medicine used to kill bacteria. It was originally discovered coming from a _____.

- A. Virus
- B. Plant root
- C. Mold
- D. Mineral

10. True or False: Prokaryotic cells, like bacteria, do not have a nucleus to hold their DNA.

- A. True
- B. False