

Microbiology Essentials for Young Scientists

Microbiology · Answer Key · 10 Questions

1. Which of these organisms is a type of fungus used by humans to make bread rise?

- A) Yeast**
- B) Bacteria
- C) Algae
- D) Protozoa

2. What is the primary method used by scientists to observe individual bacteria?

- A) Magnifying glass
- B) Telescope
- C) Light microscope**
- D) Periscope

3. Which of the following is an example of a beneficial bacterium found in the human digestive system?

- A) Salmonella
- B) Lactobacillus**
- C) E. coli O157:H7
- D) Streptococcus

4. Viruses are different from bacteria because they require what to reproduce?

- A) Sunlight
- B) Living host cells**
- C) Dead organic matter
- D) Soil minerals

5. Penicillin, the first widely used antibiotic, was originally derived from which source?

- A) A synthetic laboratory chemical
- B) A type of mold**
- C) A tropical flower
- D) Seaweed

6. What shape describes the bacteria known as bacilli?

- A) Spherical
- B) Spiral
- C) Rod-shaped**
- D) Comma-shaped

7. Which process do some bacteria use to convert nitrogen from the air into a form plants can use?

- A) Photosynthesis
- B) Nitrogen fixation**
- C) Evaporation
- D) Fermentation

8. What is the main component of a bacterial cell wall that helps protect the cell?

- A) Peptidoglycan**
- B) Cellulose
- C) Chitin
- D) Silica

9. Which group of microscopic organisms is known for performing photosynthesis in aquatic environments?

- A) Viruses
- B) Protozoa
- C) Cyanobacteria**
- D) Fungi

10. What term describes an organism that is too small to be seen by the naked eye?

- A) Macro-organism
- B) Microorganism**
- C) Multicellular
- D) Vertebrate