

Microbiology Essentials for Students

Microbiology · Practice Test · 12 Questions

1. Which of the following is a type of microorganism that can only reproduce by infecting a host cell?

- A) Bacteria
- B) Virus
- C) Fungus
- D) Algae

2. What is the primary function of decomposers like bacteria and fungi in an ecosystem?

- A) To produce oxygen
- B) To hunt small insects
- C) To break down dead organic matter
- D) To provide sunlight to plants

3. Which instrument is commonly used in classrooms to view microorganisms that are too small to see with the naked eye?

- A) Telescope
- B) Periscope
- C) Microscope
- D) Magnifying glass

4. Which of these is a beneficial use of yeast, a type of microscopic fungus, in food production?

- A) Making bread rise
- B) Killing harmful bacteria
- C) Adding color to fruit
- D) Digesting plastic

5. Which group of microorganisms is responsible for turning milk into yogurt through fermentation?

- A) Viruses
- B) Bacteria
- C) Parasites
- D) Protozoa

6. What is the term for microorganisms that cause infectious diseases in humans, animals, or plants?

- A) Antibiotics
- B) Pathogens
- C) Nutrients
- D) Probiotics

7. Which of these is a single-celled microorganism that belongs to the kingdom Protista?

- A) Amoeba
- B) Mushroom
- C) Earthworm
- D) Spider

8. Where are bacteria most commonly found?

- A) Only in laboratories
- B) Only in human bodies
- C) Almost everywhere on Earth
- D) Only in outer space

9. Which substance is produced by some types of fungi and is used in medicine to treat bacterial infections?

- A) Insulin
- B) Penicillin
- C) Vitamin C
- D) Caffeine

10. What do bacteria need to grow and multiply in a laboratory setting?

- A) A petri dish with nutrients
- B) Bright direct sunlight
- C) Extreme freezing temperatures
- D) A vacuum-sealed container

11. How do most bacteria reproduce?

- A) By laying eggs
- B) By binary fission
- C) By photosynthesis
- D) By seed dispersal

12. Which microorganism is responsible for the process of nitrogen fixation in the soil, which helps plants grow?

- A) Virus
- B) Bacteria
- C) Yeast
- D) Mold