

Microbiology Essentials for Students

Microbiology · Answer Key · 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