

Introduction to Microbiology

Microbiology · Practice Test · 18 Questions

1. Which of the following is a prokaryotic organism?

- A) Amoeba
- B) Bacterium
- C) Yeast
- D) Paramecium

2. Which scientist is credited with developing the process of pasteurization?

- A) Louis Pasteur
- B) Robert Koch
- C) Alexander Fleming
- D) Joseph Lister

3. What is the primary genetic material found in most bacteria?

- A) RNA
- B) Protein
- C) DNA
- D) Lipids

4. Which structure do bacteria use for locomotion?

- A) Cilia
- B) Flagella
- C) Pili
- D) Capsule

5. What is the name of the taxonomic kingdom that includes mushrooms and yeasts?

- A) Protista
- B) Bacteria
- C) Fungi
- D) Archaea

6. Which shape describes a coccus bacterium?

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

7. What type of microbe is responsible for the common cold?

- A) Bacterium
- B) Virus
- C) Protozoan
- D) Algae

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

- A) Cellulose
- B) Chitin
- C) Peptidoglycan
- D) Starch

9. Which instrument is primarily used to view microorganisms?

- A) Telescope
- B) Microscope
- C) Stethoscope
- D) Periscope

10. What process do many bacteria use to reproduce by splitting into two?

- A) Binary fission
- B) Meiosis
- C) Mitosis
- D) Budding

11. Which scientist discovered penicillin in 1928?

- A) Edward Jenner
- B) Robert Koch
- C) Alexander Fleming
- D) Ignaz Semmelweis

12. Where is the DNA typically found in a prokaryotic cell?

- A) Nucleus
- B) Nucleoid
- C) Mitochondria
- D) Ribosome

13. Which of these is considered a 'beneficial' microbe used in yogurt production?

- A) E. coli
- B) Lactobacillus
- C) Influenza
- D) Salmonella

14. What is a virus that infects bacteria called?

- A) Bacteriophage
- B) Prion
- C) Viroid
- D) Pathogen

15. Which microbial structure provides protection against harsh environmental conditions?

- A) Endospore
- B) Flagellum
- C) Cytoplasm
- D) Ribosome

16. What is the term for a microbe that causes disease?

- A) Symbiont
- B) Pathogen
- C) Probiotic
- D) Commensal

17. Which kingdom do the single-celled organisms known as protozoa belong to?

- A) Plantae
- B) Animalia
- C) Protista
- D) Fungi

18. What color do Gram-positive bacteria typically stain under a microscope using a Gram stain?

- A) Pink
- B) Red
- C) Blue
- D) Purple