

Introduction to Microbiology

Microbiology · Answer Key · 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