

Introduction to Microbiology

Microbiology · Answer Key · 10 Questions

1. Which organelle is notably absent in prokaryotic bacterial cells?

- A) Ribosome
- B) Nucleus**
- C) Cell membrane
- D) Cytoplasm

2. Which type of microorganism requires a living host cell to replicate?

- A) Bacteria
- B) Virus**
- C) Fungi
- D) Protozoa

3. What is the primary substance found in the cell walls of bacteria?

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

4. Which scientist is credited with the invention of the first simple microscope and the discovery of 'animalcules'?

- A) Louis Pasteur
- B) Robert Hooke
- C) Antonie van Leeuwenhoek**
- D) Alexander Fleming

5. In the binomial nomenclature system, which of the following is written correctly?

- A) Escherichia coli**
- B) escherichia coli
- C) Escherichia Coli
- D) ESCHERICHIA COLI

6. Which process do most bacteria use to reproduce?

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

7. What is the main function of bacterial endospores?

- A) Photosynthesis
- B) Reproduction
- C) Survival in harsh conditions**
- D) Protein synthesis

8. Which of the following is considered a fungal microorganism?

- A) Yeast**
- B) Algae
- C) Virus
- D) Cyanobacteria

9. What is the purpose of a Gram stain in microbiology?

- A) To kill bacteria
- B) To classify bacteria into two broad groups**
- C) To measure bacterial growth
- D) To identify viral RNA

10. Which of these is a common shape for bacterial cells?

- A) Cubical
- B) Spherical (Coccus)**
- C) Pyramidal
- D) Hexagonal