

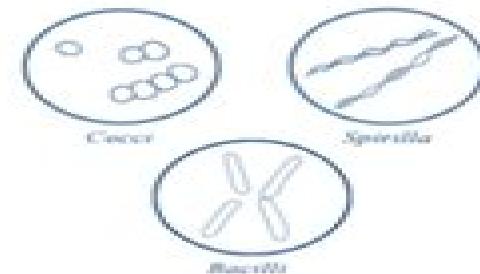
## UNIT 8: MICROBIOLOGY STUDY Guide with Test Objectives

### Learning Objectives

1. Define microbiology. The study of microbes (bacteria, archaea, viruses, unicellular eukaryotes)
2. Compare and contrast prokaryotic cells and eukaryotic cells.
  - a. Eukaryotic cells are larger and more advanced. They have distinct, membrane-bounded organelles, including the nucleus that contains DNA.
  - b. Prokaryotic cells do not have specific structures that perform a specific task within the cytoplasm. The DNA is visible throughout the cell. Ribosomes are present but do not have membranes.
3. List the main benefits of bacteria.
  - a. Help eliminate planet's waste by decomposing organic material
  - b. Enable us to digest our food by absorbing nutrients
  - c. Make air breathable by changing nitrogen from one form to another in the nitrogen cycle
  - d. Plays a role in making drugs, foods, and vitamins
4. List the harmful roles of bacteria.
  - a. Spoil food
  - b. Produce harmful or damaging toxins
  - c. Cause shortage of oxygen in lakes when "blooms" occur
  - d. Cause diseases

### 5. Describe the different shapes and arrangements of bacteria.

- a. coccus- spherical
- b. bacillus- rod-shaped
- c. spirillum- spiral-shaped



### 6. Identify the shape and arrangement of bacteria based on its scientific name.

- a. Colonies are described according to how individual bacteria are grouped together.
- b. Not grouped for survival; Usually only cocci or bacilli form colonies.
- c. Named according to their shape and number
  - i. Colony with 2 bacteria DIPLO-
  - ii. Colony that forms a string of bacteria STREPTO-
  - iii. Colony that forms a cluster formation STAPHYLO-

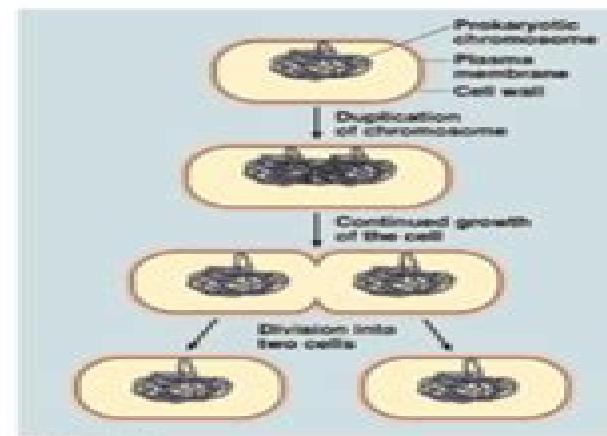
### 7. LABEL and IDENTIFY the key structural features of bacteria and describe their function.

- a. nucleoid region- area where genetic material is found; contains a single, large circular strand of DNA needed for cell growth, survival, and reproduction
- b. plasmid- a small, circular, double-stranded DNA molecule that is distinct from a cell's chromosomal DNA
- c. cell wall- provides support, shape, and regulates amount of water absorbed by cell; found outside of plasma membrane
- d. capsule- sticky outer layer that surrounds cell of some prokaryotes, protecting surface
- e. ribosomes- small, cellular structure that synthesizes proteins
- f. flagella- long appendages that rotate to allow movement

### 8. Explain the process of asexual reproduction in bacteria (binary fission).

See picture to the right.

- a. Process where one cell divides to form two identical cells.



# Microbiology Viruses Study Guide

**Gustave Mosselman, E. Li'enaux**

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## Table of Contents Microbiology Viruses Study Guide

1. Understanding the eBook Microbiology Viruses Study Guide
  - The Rise of Digital Reading Microbiology Viruses Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Viruses Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Microbiology Viruses Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Viruses Study Guide
  - Personalized Recommendations
  - Microbiology Viruses Study Guide User Reviews and Ratings
  - Microbiology Viruses Study Guide and Bestseller Lists
5. Accessing Microbiology Viruses Study Guide Free and Paid eBooks
  - Microbiology Viruses Study Guide Public Domain eBooks
  - Microbiology Viruses Study Guide eBook Subscription Services
  - Microbiology Viruses Study Guide Budget-Friendly Options
6. Navigating Microbiology Viruses Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Microbiology Viruses Study Guide Compatibility with Devices
  - Microbiology Viruses Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology Viruses Study Guide
  - Highlighting and Note-Taking Microbiology Viruses Study Guide
  - Interactive Elements Microbiology Viruses Study Guide
8. Staying Engaged with Microbiology Viruses Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Microbiology Viruses Study Guide

9. Balancing eBooks and Physical Books Microbiology Viruses Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Microbiology Viruses Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Microbiology Viruses Study Guide

- Setting Reading Goals Microbiology Viruses Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Microbiology Viruses Study Guide

- Fact-Checking eBook Content of Microbiology Viruses Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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