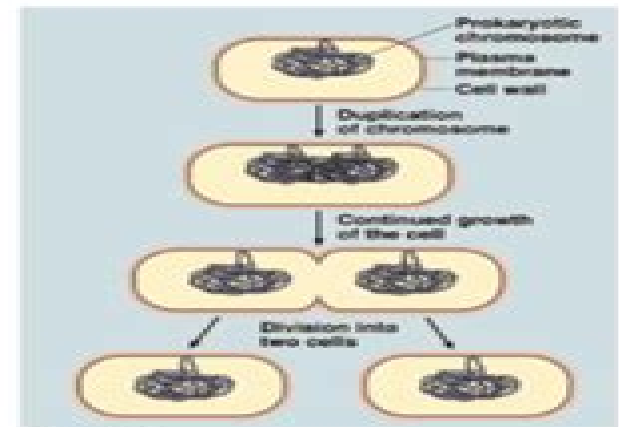
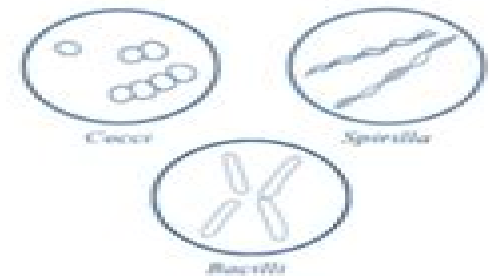


## UNIT 8: MICROBIOLOGY STUDY Guide with Test Objectives

### 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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