

## Section 1

## Lesson 1

1. List several characteristics of prokaryotic cells.

**Domain of Archaea and Bacteria****Bacteria – Prokaryotic**

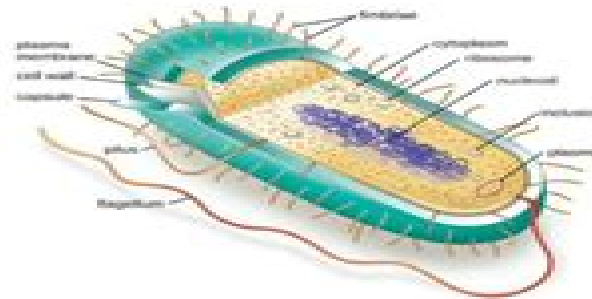
- Don't have a nucleus
- Doesn't have membrane-bound organelles
- Asexual reproduction
- Aren't multicellular

**Could have the following structures:**

- Tightly bound chromosomes
- Pilus (fimbria)
- Ribosomes
- Inclusions -have single, circular
- Flagellum chromosomal DNA
- Plasmids
- Cytoplasm
- Cell membrane
- Cell wall
- Capsule or slime layer



Outside of  
cell

**Most bacterial structures are virulence factors**

- Something that the bacteria possess that makes them more pathogenic (their ability to cause disease)

**Flagellum:**

- Movement
- Can have 1 or multiple flagellum
- Runs and tumbles
- Could be a virulence factor – if a bacteria causing a UTI has a flagella, it can swim into the bladder

**Pili:**

- Hair-like structures that surround the cell
- Contain adhesin so they can stick to cells, other bacteria, or surfaces (safety in numbers)
- Pili allows some bacteria to conjugate with others, thus exchanging genetic information. This occurs in the form of a plasmid. Conjugation can occur between different bacterium species

**Capsule (Slime layer)**

- On the outside of the cell wall
- Can be thick and sticky
- This is a virulence factor because it gives protection to the bacterial cell.
- The capsule protects the cell from phagocytosis because the phagocytes can't eat the capsule

**Cell wall:**

- Made of peptidoglycan (and other materials)
- Makes the cell wall rigid
- Gives bacteria its shape
- Peptidoglycan protects the cell from bursting when it finds itself in a hypertonic solution

**Cell Membrane:**

- Allows for transport of substances in and out of the cell
- On nearly all cells!
- It's more flexible than the cell wall
- It is a selective permeable membrane; good stuff comes in, waste goes out, and ideally prevents bad stuff from entering the cell.

- a. osmotic pressure: occurs because of differences in concentration of solutes on opposing sides of a semipermeable membrane. water can pass through this membrane, but solutes (salts, sugars, and other compounds) cannot. When concentration is greater on one side, water diffuses from the side with more water to less water until they're equal

# Study Guide Section 1 Bacteria Answers

**JoAnn Zerwekh, Jo Carol Claborn**



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Maebius,2019-04-12 Questions grouped by level of difficulty encourage you to move from easy knowledge based questions to more difficult analytical questions Alternate item formats exam include priority order multiple response labeling and calculation questions to help you practice for the NCLEX PN Exercises focus on long term care patients and settings help you to prepare for real world practice NEW Completely revised exercises and review questions match the most up to date nursing diagnoses from the text

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- 1 description of the procedural tasks commonly performed for the critically ill patient
- 2 explanation of the most common pathophysiologic states encountered and
- 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan

This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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