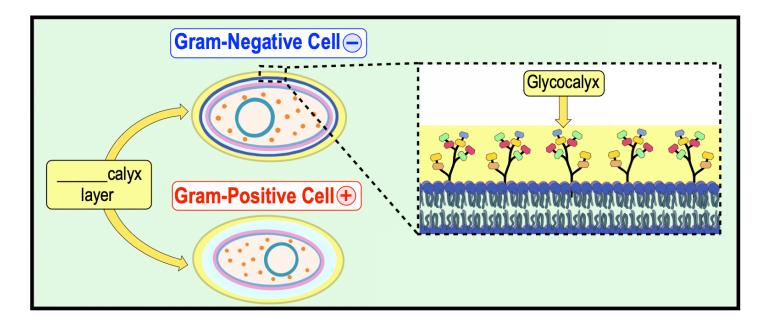
CONCEPT: THE GLYCOCALYX: CAPSULES & SLIME LAYERS

●Most bacteria are surrounded by a layer of a <i>sticky gel-like</i> substance called the	
Glycocalyx: a complex poly_	layer surrounding the outside of a cell.
□ Promotes	of cells to solid surfaces & to other cells.
	the cell from dehydration & can collect nutrients from the environment for energy.



●There are different categories of the glycocalyx based on the ______ of its structure.

PRACTICE: What is the function of the glycocalyx in bacterial cells?

- a) Attachment of cells to surfaces and other cells.
- b) Protein synthesis.
- c) Phagocytosis of other cells.
- d) DNA replication.

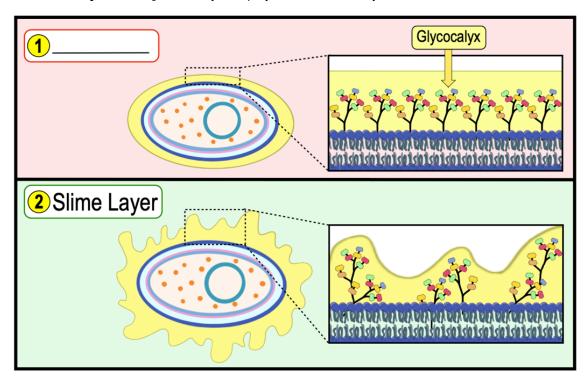
PRACTICE: ______ is the slime-like layer of polysaccharides on the outer surface of bacterial cells.

- a) The outer membrane.
- b) The cytoplasm.
- c) The glycocalyx.
- d) The periplasm.
- e) The S-layer.

CONCEPT: THE GLYCOCALYX: CAPSULES & SLIME LAYERS

Capsules vs. Slime Layers

- •There are ____ categories of the *glycocalyx*:
 - 1) Capsules: highly organized & dense layer of polysaccharides ______ anchored to the cell.
 - 2) _____ Layers: unorganized layer of polysaccharides easily removable from the cell.



•The *glycocalyx* is important for the formation of _____.

PRACTICE: _____ are an organized layer of polysaccharides tightly anchored to the cell wall.

- a) Capsules.
- b) Periplasms.
- c) Slime-layers.
- d) Teichoic acids.
- e) Lipopolysaccharides.

PRACTICE: Which of the following is not a function of slime layers and capsules:

a) Protection against dehydration.

c) Attachment to other cells & solid surfaces.

- b) Collect nutrients from its surroundings.
- d) Anchors the outer membrane to peptidoglycan.