

Prokaryotes / quick test answer key

Written Questions

1. The gel like fluid inside the cell membrane where the reactions of metabolism occur
ANSWER: Cytoplasm
2. A rigid non-cellular structure that surrounds the cells of bacteria.
ANSWER: A bacterial cell wall.
3. A dense region of DNA in a prokaryotic cell.
ANSWER: Nucleoid
3. Organelles made of protein and RNA that direct protein synthesis.
ANSWER: Ribosomes

Multiple Choice Questions

- 1) A single-celled organism without a nucleus or membrane-bound organelles.
 - Nucleoid
 - Ribosomes
 - Pili
 - **CORRECT:** Prokaryote
- b) The basic structural and functional unit of all organisms.
 - Flagella
 - **CORRECT: Cell**
 - Cell wall
 - Pili
- c) Long whip like structures, made from the protein flagellin, that enable movement.
 - **CORRECT Flagella**
 - Cell wall
 - Nucleoid
 - Cell

True/False Questions

1. Pili --> hair like protein structures, that allow bacteria to attach to things.
This is true.

2. Plasma membrane --> A phospholipid bilayer that surrounds the cell.
This is true.

It should be **Cytoplasm** → The gel like fluid inside the cell membrane where the reactions of metabolism occur..

3. E. coli → A rigid non-cellulose structure that surrounds cells of bacteria
This is false.

It should be E.coli → The Archetypal bacterium. A rod shaped gram-negative bacillus.