

The Cell Membrane: Gatekeeper

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Understanding Cell Membranes and Their Functions

Name: _____

Date: _____

Answer the following questions based on what you learned about cell membranes and their role as gatekeepers.

1. What is the main function of the cell membrane?

- A. To provide energy to the cell
- B. To act as a selective barrier
- C. To store genetic information

2. Why do you think cells need protection from their surroundings?

3. Cell membranes allow all substances to enter and exit the cell freely.

- True False

4. The cell membrane acts like a ____, deciding what can enter and exit the cell.

5. Which of these statements best describes the cell membrane's role?

- A. It only lets in water
- B. It controls the movement of substances
- C. It has no function

6. How is a cell membrane similar to a security guard?

7. The scripture Proverbs 4:23 reminds us to guard our hearts and minds, similar to how a cell membrane protects the cell.

- True False

8. Just as the cell membrane protects the cell, we must protect our ____ and minds from harmful influences.

9. What does Proverbs 4:23 encourage us to do?

- A. Ignore our feelings
- B. Keep our hearts with diligence
- C. Focus only on our physical health

10. In what way does understanding cell membranes help us appreciate God's design in creation?

Answer Key

1. 1 2. Cells need protection to maintain a stable internal environment and to prevent harmful substances from entering. This helps them to function properly and stay healthy. 3. False 4. gatekeeper 5. It controls the movement of substances 6. A cell membrane is like a security guard because it decides who can enter and exit the cell, protecting it from harmful substances, much like a guard protects a building. 7. True 8. hearts 9. Keep our hearts with diligence 10. Understanding cell membranes shows us how intricately God designed cells to function. Each part has a purpose, much like how God has a purpose for each of us.