

Cellular Factories and Highways Review

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Understanding Cell Structure and Function

Name: _____

Date: _____

Answer the following questions based on the lesson about the endoplasmic reticulum and Golgi apparatus.

1. What is the main function of the endoplasmic reticulum in a cell?

- A. Energy production
- B. Manufacturing proteins
- C. Transporting waste

2. Describe how the Golgi apparatus functions in a cell. What role does it play?

3. The endoplasmic reticulum acts like a cellular ____ where proteins are made.

4. The Golgi apparatus is responsible for creating proteins in the cell.

- True False

5. Which scripture highlights the complexity of how we are made?

- A. Genesis 1:1
- B. Psalm 139:14
- C. John 3:16

6. Why is organization important in both cells and human-made systems? Provide one example of each.

7. The Golgi apparatus is often referred to as the cell's ____ department.

8. The endoplasmic reticulum and Golgi apparatus do not work together in a cell.

- True False

9. What does Psalm 139:14 say about how we are made?

- A. We are a mistake
- B. We are fearfully and wonderfully made
- C. We are made from dust

10. How might the structures of cells remind you of a factory? Give at least two examples.

Answer Key

1. Manufacturing proteins 2. The Golgi apparatus packages and ships materials made in the cell, similar to a shipping department in a factory. 3. factory 4. False 5. Psalm 139:14 6. Organization is important because it allows for efficiency and function. In cells, the endoplasmic reticulum and Golgi apparatus work together. In human systems, factories have organized workflows for production. 7. shipping 8. False 9. We are fearfully and wonderfully made 10. Cells have specialized parts like factories. The endoplasmic reticulum is like assembly lines, making proteins, while the Golgi apparatus is like packaging areas, preparing materials for transport.