Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Test Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Study Guide – Cell Organelles and their Functions**

**Part 1: Identify Each Organelle from its Picture**

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| Image result for not labelled simple animal cell |  |
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| Image result for not labelled simple animal cell |  |
| Image result for not labelled simple plant cell |  |
| Image result for not labelled simple plant cell |  |
| Image result for not labelled simple plant cell |  |

**Part 2: Identify Each Organelle from Its Description:**

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is found in plants, and is a rigid structure that **supports** and **protects** the cell.

2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ controls many functions of the cell, and contains DNA.

3. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ packages and distributes proteins out of the cell.

4. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ encloses, protects and controls movement in and out of the cell.

5. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a gel-like material that fills the cell and holds organelles in place.

6. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the main power source of the cell that produces energy from sugar.

7. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, found in cells, is where photosynthesis occurs, and light is converted to energy.

8. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ transports materials, and breaks down toxic materials that could harm the cell.

9. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a large sac-like organelle that contains water and food inside the cell.

10. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contains digestive enzymes that digest food and get rid of waste.

11. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are small organelles that make protein, lipids and help break down toxins.

**Part 3: Comparisons of Organelles**

1. How do the Cell Wall and Cell Membrane work together in plant cells to:

|  |  |
| --- | --- |
|  | Defend the cell: |

2. How do the Nucleus and the Endoplasmic Reticulum (ER) work together in cells to:

|  |
| --- |
| Help the cell get energy: |

3. How do Mitochondria and Chloroplasts work together in plant cells to:

|  |
| --- |
| Help the cell get energy: |

4. How do the Golgi Apparatus and the Ribosomes work together in cells to:

|  |
| --- |
| Help the cell get energy: |