**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_ Pariod: \_\_\_\_**

**Distributed: October 22 Due: October 28 Unit Test: October 29**

**Characteristics of Life, Cell Theory and Classification**

**Unit Test Study Guide**

**Part 1:Characteristics of Life:**

1.

2.

3.

4.

5.

6.

7.

8.

**Part 2: Needs of Life**

1.

Definition:

Examples:

2.

Definition:

Examples:

3.

Definition:

Examples:

4.

Definition:

Examples:

**Part 3: Cell Theory:**

**Scientists:**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1663) – named “cells” after looking at cork.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1668) – disproved spontaneous generation of large organisms (meat does not make maggots).
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1674) – first person to look at living cells; discovered bacteria on his teeth.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1838) – all plants are made of cells.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1839) – all animals are made of cells.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1855) – life comes from life.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1862) – disproved spontaneous generation of microscopic organisms.

**The Cell Theory:**

**1.**

**2.**

**3.**

**Part 4: Hierarchy (Classification) of Life**

**Part 5: Classification:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Domain** | **Kingdom** | **Type of Cell** | **# of Cells** | **Energy** | **Example** |
| Archaea |  |  |  | Autotroph or heterotroph | Methanogen |
| Bacteria |  | Prokaryotic | Unicellular |  | Strepococcus |
| Eukarya |  |  | Mostly unicellular some multicellular |  | Euglena, Kelp |
|  | Eukaryotic  (cell walls have chitin) |  | Heterotroph |  |
|  |  |  | Autotroph |  |
| Animal |  | Multicellular | Heterotroph |  |