|  |  |
| --- | --- |
| **http://www.biologycorner.com/resources/microscope5.gifWhat scientific advancement made the discovery of cells possible?**Cell Structure and Function Test Review | http://www.malebolge.net16.net/science10/prokaryotic_cell.gif |
| Write the letter of the scientists name next to their contribution to the **cell theory**.1. **Robert Hooke**
2. **Anton van Leeuwenhoek**
3. **Matthias Schleiden**
4. **Theodor Schwann**
5. **Rudolf Virchow**
 | * All cells come from pre-existing cells
* First to see cells; coined the term “Cell”
* All animals are made of cells
* Looked at pond water and saw tiny microorganisms called “Animalcules”
* All plants are made of cells
 |
| What are the seven premises of the **Cell Theory**? | **Compare and Contrast: Prokaryote vs. Eukaryote****Compare and Contrast: Plant vs. Animal Cells** |
| What is an **organelle**? | List the **four** parts common to **ALL** cells. |
| **Write the name of the organelle next to its function.****http://www.celldiagram.net/wordpress/wp-content/uploads/plant-animal-cell-diagram.jpgWord Bank:** Vacuole, Chloroplast, Cell Membrane, Endoplasmic Reticulum, Lysosome, Mitochondria, Cell Wall, Ribosome, Nucleus, Golgi Apparatus | * Intracellular highway
* Brain of the cell; controls all cell activity
* Site of photosynthesis in plants
* “Powerhouse” of the cell; site of cellular respiration
* Garbage disposal (contains digestive enzymes)
* Site of protein synthesis; these organelles are made in the nucleolus
* Packages cellular products for transport and export from the cell
* Storage of water and food
* Regulates what enters and leaves the cell
* Outermost boundary of a plant cell
 |
| Write the letter of the scientists name next to their contribution to our understanding of **spontaneous generation**.1. **Francesco Redi**
2. **Lazzaro Spallanzani**
3. **Louis Pasteur**
 | * Developed a special “swan-neck” flask to help disprove the idea of spontaneous generation.
* Used jars of rotting meat to prove that flies came from maggots, not meat.
* Believed that the microbes which spoil food come from the air and can be killed by boiling.
 |
| **Multiple Choice:** **In what type of cell would you find a chloroplast?**

|  |  |
| --- | --- |
| 1. Prokaryote
 | b. Animal |
|  c. Plant | d. Fungus |

 **In which of the following pairs are the terms NOT related?**

|  |  |
| --- | --- |
| 1. Nucleus-DNA
 | 1. Chloroplast-chlorophyll
 |
| 1. Flagella-Chromatin
 | 1. Cell Wall-Cellulose
 |

 **A bacterium is classified as a prokaryote because it…**

|  |  |
| --- | --- |
| 1. Has cilia.
 | 1. Has no nucleus.
 |
| 1. Is a single cell.
 | 1. Has no DNA.
 |

**What is the difference between a prokaryote and a eukaryote?**

|  |  |
| --- | --- |
| 1. The need for nutrients.
 | 1. Plasma membranes.
 |
| 1. Membrane-bound organelles.
 | 1. Cell Walls.
 |

 **Which of the following structures is NOT found in both plant and animal cells?**

|  |  |
| --- | --- |
| 1. Chloroplast
 | 1. Ribosomes
 |
| 1. Cytoskeleton
 | 1. Mitochondria
 |

**According to the cell theory, which statement is correct?**

|  |
| --- |
| 1. Cells are basically unalike in structure.
 |
| 1. Cells come from pre-existing cells.
 |
| 1. Mitochondria are found only in plant cells.
 |
| 1. Viruses are true cells.
 |

 **Which organelle is present in the cells of a mouse, but not in the cells of a bean plant?**

|  |  |
| --- | --- |
| 1. Cell Membrane
 | 1. Chloroplast
 |
| 1. Centriole
 | 1. Cell Wall
 |

 | http://discovercreation.org/blog/wp-content/uploads/2011/12/Redis-experiment.jpg **Which scientist performed the above experiment?****IV:** **DV:** **Hypothesis:** **Constants:** **Conclusion:** http://biol4141.files.wordpress.com/2012/08/1.jpg**Which scientist performed the above experiment?****IV:** **DV:** **Hypothesis:** **Constants:** **Conclusion:**  |