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| **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](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&docid=UAmmQ1NuWp_-uM&tbnid=AiVSUiBuBOB1-M:&ved=0CAUQjRw&url=http://discovercreation.org/blog/2011/12/&ei=D9GcUqPBEoWtkAe0uYC4Cw&bvm=bv.57155469,d.cWc&psig=AFQjCNEYwKWY83GaTARMUrDN75hx5s8YHg&ust=1386095171640142)  **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:** |