

Life Science Final Test Review 1

- 1) How do you know if something is alive? Poke it with a stick? No! Scientists seek to classify things... well, more scientifically. What are 5 characteristics that scientists look for to determine whether something is a living thing?
- 2) Living things are said to be organized. What does this mean?
- 3) All organisms also have the ability to adjust to their surroundings. Give one example of an organism adjusting to its surroundings.
- 4) All organisms are made of cells. A single cell is a living thing. These cells group together to make a larger living thing. For example, you are made of trillions of tiny living cells working together to keep you functioning. Write a definition for the term cell.
- 5) Give an example of a cell that you can see without the use of a microscope. A big cell!
- 6) Some organisms are made of only one single cell, called single-celled organism. Others are made of more than one cell. What is the term given to an organism with more than one cell?
- 7) All living things begin life as one cell. This cell contains genetic code that instructs the cell how to build the body of the organism. What is this genetic code called?
- 8) As that one cell splits and divides, it becomes two cells. This cell division is called mitosis. Explain the process a cell goes through during mitosis.
- 9) Cells contain many parts that keep them functioning. Like larger organisms contain organs, cells contain organelles. Name 4 organelles, and explain what each does.
- 10) Why are plants green?
- 11) Plants are considered to be *producers* because they make their own food. Animals cannot do this. What allows plants to do this while animals can't?
- 12) Plant cells and animal cells, though very similar, have some important differences. Explain at least 3 differences between plant and animal cells.
- 13) Why do plant cells have one large vacuole?
- 14) Why do plant cells have a cell wall and animal cells don't?
- 15) What's the difference between a Eukaryote cell and a Prokaryote cell?