Science Test – Chapter 6 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Score:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Matching: Match each word with the correct definition

|  |  |
| --- | --- |
| 1. \_\_\_\_asexual reproduction | 1. The division of one cell into two cells; it includes mitosis and cytokinesis |
| 1. \_\_\_\_budding | 1. Asexual reproduction in which a portion of the parent separates from the parent to form a new organism; occurs in yeast |
| 1. \_\_\_\_cytokinesis | 1. The division of the cytoplasm during the process of cell division |
| 1. \_\_\_\_DNA | 1. The production of a new organism without the joining of gametes; reproduction that takes place by mitotic cell divisions |
| 1. \_\_\_\_gene | 1. A cell with a hard, protective covering; under favorable conditions it can produce a new organism |
| 1. \_\_\_\_meiosis | 1. A segment of DNA in which the sequence of nucleotides code for a specific protein, which in turn produces a specific characteristic |
| 1. \_\_\_\_RNA | 1. The process whereby one diploid cell forms haploid cells |
| 1. \_\_\_\_nucleotide | 1. Deoxyribonucleic acid |
| 1. \_\_\_\_protein synthesis | 1. Ribonucleic acid |
| 1. \_\_\_\_regeneration | 1. The basic structural unit of DNA and RNA; contains a sugar, a phosphate, and a base |
| 1. \_\_\_\_replication | 1. The manufacturing of protein inside a cell |
| 1. \_\_\_\_sister chromatid | 1. The ability to replace missing structures; in some organisms, serves as a method of asexual reproduction |
| 1. \_\_\_\_spore | 1. The process of forming tow DNA molecules from one original DNA molecule |
| 1. \_\_\_\_transcription | 1. One of two identical chromosomes formed from one original chromosome during mitosis |
| 1. \_\_\_\_cell division | 1. The process of forming RNA using DNA as a pattern |

True or False

1. \_\_\_\_\_ It is regeneration that allows a worm to grow back after parts of it are cut off.
2. \_\_\_\_\_ An example of spores is mushrooms.
3. \_\_\_\_\_ Humans and animals reproduce by asexual reproduction.
4. \_\_\_\_\_ A nucleotide is made up of a base, sugar, and phosphate.
5. \_\_\_\_\_Protein synthesis takes place in the ribosome.

List the four phases in mitosis.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List the four bases that help make up a nucleotide.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are the two different types of RNA?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Extra Credit

1. What does the cell need to perform protein synthesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_