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

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

Matching: Match each word with the correct definition

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| --- | --- |
| 1. \_\_\_\_asexual reproduction
 | 1. The division of one cell into two cells; it includes mitosis and cytokinesis
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| 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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_