

Quiz: DNA

Name \_\_\_\_\_

Date \_\_\_\_\_

- \_\_\_\_\_ 1 What does "DNA" stand for?
- \_\_\_\_\_ 2 Give the names of the two scientists who discovered the structure of the DNA molecule.
- \_\_\_\_\_ 3 What is the name of the building blocks (monomers) that compose the DNA polymer?
- \_\_\_\_\_ 4 What name is given to DNA that refers to its two-sided, spiraling shape?
- \_\_\_\_\_ 5 What are the three components of a nucleotide?
- \_\_\_\_\_ 6
- \_\_\_\_\_ 7
- \_\_\_\_\_ 8 What name is given to nitrogen bases that have a 2-ring structure?
- \_\_\_\_\_ 9 What name is given to nitrogen bases that have a single ring structure?
- \_\_\_\_\_ 10 What type of bond holds two nitrogen bases together?
- \_\_\_\_\_ 11 What type of bond is found between all components of the DNA molecule except the nitrogen bases?
- \_\_\_\_\_ 12 Name the type of sugar found in DNA.
- \_\_\_\_\_ 13 What is always found at the 3' end of the DNA molecule?
- \_\_\_\_\_ 14 What is the width of the DNA molecule?
- \_\_\_\_\_ 15 What is the length of one full turn of the helix?
- \_\_\_\_\_ 16 What is the distance between two steps of the DNA ladder?
- \_\_\_\_\_ 17 Which two nitrogen bases are pyrimidines?
- \_\_\_\_\_ 18 The process in which a DNA molecule builds an exact duplicate of itself.
- \_\_\_\_\_ 19 Replication begins at various sites along the DNA molecule. These sites are called?
- \_\_\_\_\_ 20 Name given to a site on the DNA molecule where the two complementary sides have separated upon creating a "bubble".
- \_\_\_\_\_ 21 A "Y" shaped region along the DNA molecule where replication is taking place.
- \_\_\_\_\_ 22 Which enzyme catalyzes the elongation of DNA during replication by adding new nucleotides to the growing 3' end?
- \_\_\_\_\_ 23 What name is given to a nucleotide that has an additional two phosphate groups?
- \_\_\_\_\_ 24 Term meaning that the DNA molecule has opposite directions on each side.
- \_\_\_\_\_ 25 Name given to the DNA strand which is synthesized continuously one nucleotide at