DNA, RNA, and Protein Synthesis



- The letters "DNA" stand for deoxyribonucleic acid.
- DNA is composed of smaller subunits know as nucleotides.
- The three parts of a nucleotide are <u>sugar</u>, phosphate, and a nitrogen base.
- 4. The four nitrogen bases that are found in DNA are adenine, cytosine, guanine, and thymine,
- Two of the nitrogen bases are single ring structures known as <u>pvrimidines</u>. These two bases are <u>thvmine</u> and <u>cvtosine</u>.
- 6. The other two bases are double ring structures known as purines. These two bases are adenine and guanine.
- 7. Francis Crick and James Watson are the two scientists that discovered the structure of the DNA molecule.
- DNA looks like a ladder twisted into a shape known as a double helix.
- The two molecules that make up the sides of the ladder or the side portion of a DNA molecule are <u>sugars</u> and phosphates.
- 10. The molecules that meet across the middle, forming the steps of the "ladder" are known as nitrogen bases.
- 11. Which nitrogen bases always pair with one another? <u>Adenine pairs with Thymine; Cytosine pairs with</u> Guanine
- 12. According to Chargaff's rules, the percentages of <u>adenine</u> are equal to those of thymine and the percentages of <u>cvtosine</u> are equal to those of guanine in the DNA molecule.
- The nitrogen bases are held together in the center of the molecule by <u>hydrogen bonds</u>.
- 14. True or False? According to the principle of base pairing, hydrogen bonds could form only between adenine and cytosine. <u>False</u>
- 15. The type of sugar found in DNA is deoxyribose.
- 16. If the sequence on the right-hand side of the DNA molecule was TAGGCTCA, the complimentary side would have a sequence of <u>ATCCGAGT</u>.
- 17. Label the parts of the drawing below. Include all of these terms: nucleotide, phosphate, sugar, nitrogen base, hydrogen bond, covalent bond, purine, pyrimidine, hydroxyl group, the 5' end, the 3' end, adenine, thymine, cytosine, and guanine.

Dna And Rna Lab 32 Answers

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