

## Biology Chapter 16

1. A difference between a DNA and an RNA molecule? DNA is double-stranded, whereas RNA is singlestranded. (With some exceptions) DNA is a double-stranded molecule and RNA is a single-stranded molecule.
2. Nucleotides are composed of a pentose sugar, a nitrogenous base, and a phosphate group
3. Phosphate groups contain phosphorus.
4. You can tell that this is an image of a DNA nucleotide and not an RNA nucleotide because you see a \_\_\_\_\_ sugar with two, and not three, oxygen atoms
5. Which of these nitrogenous bases is found in DNA but not in RNA? thymine DNA contains thymine; RNA does not.
6. Which letters are purines? AG
7. Which letters are pyrimidines? CUT
8. Nucleic acids are assembled in the \_\_\_\_\_ direction. New nucleotides are added to the 3' end of a growing polynucleotide.
9. In a DNA double helix an thymine ... cytosine adenine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand, and a guanine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand. This is referred to as specific base pairing.
10. In an analysis of the nucleotide A + C = G + T composition of DNA, which of the following will be found?
11. Which of the following can be determined directly from X-ray diffraction photographs of crystallized DNA? the diameter of the helix
12. In a DNA double helix an adenine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand, and a guanine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand. thymine ... cytosine. This is referred to as specific base pairing.
13. After DNA replication is completed, \_\_\_\_\_ each new DNA double helix consists of one old
14. DNA strand and one new DNA strand
15. The first step in the replication of DNA is catalyzed by \_\_\_\_\_ helicase
16. The action of helicase creates replication forks and replication bubbles. A replication fork is the transition region between paired and unpaired DNA strands.
17. Why is the new DNA strand complementary to the 3' to 5' strands assembled in short segments? DNA polymerase can assemble DNA only in the 5' to 3' direction
18. Since DNA polymerase can assemble DNA only in the 5' to 3' direction, the new strand complementary to the 3' to 5' strand must be assembled in short 5' to 3' segments, which are later joined together by ligase.
19. The synthesis of a new strand begins with the synthesis of a(n) \_\_\_\_\_ RNA primer complementary to a preexisting DNA strand
20. The synthesis of a DNA strand begins with the formation of an RNA primer.
21. An old DNA strand is used as a template for the assembly of a new DNA strand. An old DNA strand is used as a template for the synthesis of a complementary new strand.
22. What catalyzes DNA synthesis? DNA polymerase
23. This enzyme catalyzes DNA synthesis.
24. Which of the following statements about DNA synthesis is true? Primers are short sequences that allow the initiation of DNA synthesis.

# Biology Chapter 16 Worksheet Answers

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