

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 nucleotideA + 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 Guide Ch 31 Answers

RD Boyd



Biology Guide Ch 31 Answers:

Biology Guide Ch 31 Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Biology Guide Ch 31 Answers**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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Biology Guide Ch 31 Answers :

1. AB Calculus - Step-by-Step Name Write, but do not solve, an equation involving an integral expression whose solution k would be the number of days the height of the snow would be half of its ... Step by Step Student Let f be a twice-differentiable function defined on the interval. $0.5 < x < 4.5$ with $f(2) = 3$. The graph of f, the derivative of f is shown to the right. 70. AB Calculus - Step-by-Step Name Stu Schwartz. 70. AB Calculus - Step-by-Step. Name ... Describe the region in the xy-plane in which all the solutions to the differential equation are concave ... ABReview Stu Schwartz AB Calculus Exam - Review Sheet - Solutions. A. Precalculus Type problems ... $f(x)$. Step 1: Find $f(a)$. If you get a zero in the denominator,. Step 2 ... Diff EQ Practice.pdf - 70. AB Calculus - Step-by-Step Name View Diff_EQ_Practice.pdf from MATH 1300 at Brooklyn College, CUNY. 70. AB Calculus - Step-by-Step Name _ Consider the differential equation $dy + x + 1 = . dx$... AB Calculus Manual (Revised 12/2019) This manual can easily replace an expensive textbook. Teachers teach right from it and students write in it. The Solution Manual is exactly the same as the ... AB Calculus - Step-by-Step - 24. Function Analysis There is a relative maximum at $x=2$ as f switches from positive to negative. b. On what intervals is the graph of f concave upward?

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