

Chapter 12 DNA & RNA Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Which of the following is a nucleotide found in DNA?
 - a. ribose + phosphate group + thymine
 - b. ribose + phosphate group + uracil
 - c. deoxyribose + phosphate group + uracil
 - d. deoxyribose + phosphate group + cytosine
- _____ 2. DNA replication results in two DNA molecules,
 - a. each with two new strands.
 - b. one with two new strands and the other with two original strands.
 - c. each with one new strand and one original strand.
 - d. each with two original strands.
- _____ 3. During mitosis, the
 - a. DNA molecules unwind.
 - b. histones and DNA molecules separate.
 - c. DNA molecules become more tightly coiled.
 - d. nucleosomes become less tightly packed.
- _____ 4. Unlike DNA, RNA contains
 - a. adenine.
 - b. uracil.
 - c. phosphate groups.
 - d. thymine.
- _____ 5. Which type(s) of RNA is(are) involved in protein synthesis?
 - a. transfer RNA only
 - b. messenger RNA only
 - c. ribosomal RNA and transfer RNA only
 - d. messenger RNA, ribosomal RNA, and transfer RNA
- _____ 6. During transcription, an RNA molecule is formed
 - a. that is complementary to both strands of DNA.
 - b. that is complementary to neither strand of DNA.
 - c. that is double-stranded.
 - d. inside the nucleus.
- _____ 7. How many codons are needed to specify three amino acids?
 - a. 3
 - b. 6
 - c. 9
 - d. 12
- _____ 8. Which type of RNA functions as a blueprint of the genetic code?
 - a. rRNA
 - b. tRNA
 - c. mRNA
 - d. RNA polymerase
- _____ 9. DNA is copied during a process called
 - a. replication.
 - b. translation.
 - c. transcription.
 - d. transformation.
- _____ 10. RNA contains the sugar
 - a. ribose.
 - b. deoxyribose.
 - c. glucose.
 - d. lactose.
- _____ 11. Which RNA molecule carries amino acids?
 - a. messenger RNA
 - b. transfer RNA
 - c. ribosomal RNA
 - d. RNA polymerase

Biology Chapter 12 Dna Rna Test

Peipei Pang



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cover polygenic risk scores now starting to become useful clinical service tools preimplantation diagnosis noninvasive prenatal diagnosis companion diagnostics for prescribed drugs liquid biopsies in cancer epigenetics and gene regulation the widespread use of next generation sequencing as a routine diagnostic tool the checking of a patient's whole exome for the cause of their problem *Holt Biology* Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008

DNA Complex and Adaptive Behavior John Gaito, 1971 **Nanozymes** Ravi Mani Tripathi, Ramesh Namdeo Pudake, Peng Huang, NESRIN HORZUM, 2024-07-23 Nanozymes A Revolutionary Perspective on Approachable Bio applications provides an in depth overview of nanozymes with a special focus on nanozymes synthesis and their various applications in biological sciences The book starts with introductory chapters exploring the enzymatic mechanism of nanozymes and providing the concept of engineering to surface modification to achieve enhanced nanozymatic properties Subsequent chapters focus on the application of nanozymes in many different fields including biomedical science agriculture environmental science and more This work is an important reference source for worldwide materials scientists and researchers interested on the recent developments challenges and future directions of nanozymes research Highlights recent developments and future directions of nanozymes research for readers across multidisciplinary fields Features a broad range of applications of nanozymes from environmental monitoring to therapeutic applications Includes numerous illustrations to help readers easily understand the role of nanozymes based tools in different areas *Biology* Kenneth D. Johnson, David Rayle, Lee Wedberg, 1984 **Biology** Krogh, 2000-10-16 *Biology* Colleen M. Belk, Virginia Borden, 2004 Designed for one semester courses in introductory biology for non major biology students this issues based inquiry driven biology text provides students with the ability and desire to take an active and scholarly interest in the science issues they will regularly face in college *Oncogenomics* Charles Brenner, David Duggan, 2004-11-19 This book aims to assemble the only available rigorous yet broadly accessible introduction to this new and exciting field Oncogenomics Molecular Approaches to Cancer is approachable by basic scientists practitioners and other health professionals required to familiarize themselves with the tremendous impact of genomics and proteomics on cancer research Clearly written chapters offer reviews of state of the art topics such as molecular classification early detection SNPs in cancer data mining tissue microarrays protein and antibody arrays and drug targets **Biology Today** David L. Kirk, 1975 This book contains history of biology study the study of life biological behavior and human biology *Biology and Man* William David McElroy, Carl P. Swanson, Robert I. Macey, 1975

Modern Cell Biology William David McElroy, Carl P. Swanson, 1976 *The World of Biology* P. William Davis, Eldra Pearl Solomon, Linda R. Berg, 1990 Includes bibliographical references and index **Biology** Karen Arms, Pamela S. Camp, 1982 *Biology: How Life Works (Volume 1)* James Morris, 2013-01-04 Ordinarily textbooks are developed by first writing chapters then making decisions about art and images and finally once the book is complete assembling a test bank and ancillary media This process dramatically limits the integration across resources and reduces art media and assessments

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Biology ,1998

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