

Lab Exercise 11: DNA Biology and Technology

For this lab exercise, type all responses directly in this document and re-submit on Blackboard by the due date/time outlined in the online lab schedule.

Before beginning this lab, I suggest reviewing Lecture 10. This will help you all refresh your memory of DNA Replication and introduce the topics of Transcription and Translation. If you want to save time, have a look at the videos posted as supplementary material for Lecture 10!

Part I: DNA Replication. Answer the following questions regarding DNA Replication.

1. Number the following *general* steps of DNA replication in the correct order (1, 2, 3):

____ 2 ____ Daughter strands are formed using complementary base pairing.
 ____ 1 ____ Parent DNA strands unwind.
 ____ 3 ____ The DNA of the daughter strands winds together with its corresponding parent strand.

2. Which enzyme is responsible for the unwinding of the parental strands of DNA from the original DNA molecule by breaking the hydrogen bonds present between each nitrogenous base pair? (Hint: this enzyme unwinds the *helix*).

Helicase

3. Which group of enzymes are responsible for synthesizing DNA by linking nucleotides to a growing daughter strand of DNA as it follows complementary base-pairing rules?

DNA polymerase

4. Which enzyme is responsible for linking Okazaki fragments together in the lagging strand to form a single DNA strand?

DNA ligase

5. Complete the table on the following page. This table asks you to use complementary base pairing to copy 2 original DNA strands (separated from one parent DNA molecule) into two new DNA molecules!

Original DNA Strand 1	Original DNA Strand 2
A	T
C	G
T	A
T	A
A	T
C	G
G	C
C	G
C	G
G	C
<u>1</u> A	T
T	A

Laboratory 11 Dna Biology And Technology Answers

Minjie Lin



Laboratory 11 Dna Biology And Technology Answers:

Lessons Learned from 9/11 National Institute of Justice (U.S.),2006 This report contains the Kinship and Data Analysis Panel s lessons learned particularly regarding DNA protocols laboratory techniques and statistical approaches in the DNA identification of WTC victims It is written primarily for the Nation s forensic laboratory directors and other officials who may be responsible for organizing and managing the DNA identification response to a mass fatality incident **CBSE Class 12 Biology Chapter-wise Question Bank - NCERT + Exemplar + PAST 15 Years Solved Papers 8th Edition** Disha Experts,2022-08-02 The thoroughly Updated 8th Edition of the book CBSE Class 12 Biology Chapter wise Question Bank NCERT Exemplar PAST 15 Years Solved Papers provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students The book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 13 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems The Book will prove to be a One Stop Question Bank for CBSE Exams *Applied and Environmental Microbiology* ,1996 *ASM News* ,2001 *41 Years - UPSC Previous Year Papers - Subjectwise Solved General Studies Papers GS CSAT Paper 1 Prelims for UPSC IAS Civil Services Exam* Mocktime Publication, UPSC Previous Year Papers 41 Years Subjectwise Solved Question Papers General Studies GS CSAT Paper 1 Prelims for UPSC IAS Civil Services Exam Keywords Indian Polity Laxmikant Old NCERT History General Studies Manual Geography Majjid Hussain GIST of NCERT Indian Economy by Ramesh Singh **Genetic witness : forensic uses of DNA tests** United States. Congress. Office of Technology Assessment,1990 *Proceeding of the III Conference of European Researchers in Didactic of Biology (ERIDOB)* Isabel García-Rodeja Gayoso,2001 **Biotechnology** Raymond Dobert,1998 Provides sources of information that should provide a good starting point for teachers university faculty extension agents other education leaders Includes a bibliography of 153 citations to the current literature some with extended abstracts A guide to selected print electronic resources includes LC subject headings indexes abstracts dictionaries books journals newsletters equipment resources Internet material resources Author subject indexes **Chapter-wise NCERT + Exemplar + Past 12 Years Solutions for CBSE Class 12 Biology 6th Edition** Disha Experts, The book provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Book Exemplar Book Past 12 Years Solutions for CBSE Class 12 The 6th Edition of the book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 12 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems **Chapter-wise NCERT + Exemplar + PAST 13 Years Solutions for CBSE Class 12 Biology 7th Edition** Disha Experts,2020-06-20 The book provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Solutions Exemplar Solutions Solved Papers Past 13 years for CBSE Class 12 The 7th Edition of the book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter

exercises Section 2 Past Year Questions of Past 13 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems Biotechnology, 1996 *Biology* Dr S Venugopal, A text book on Biology **42 Years UPSC Previous Year Papers - Subjectwise General Studies GS CSAT Paper-1 Preliminary Exam** Mocktime Publication, 42 Years UPSC Previous Year Papers Subjectwise General Studies GS CSAT Paper 1 Preliminary Exam Keywords Objective Economy Polity History Ecology Geography Objective Indian Polity by Laxmikant General Studies Manual Indian Economy Ramesh Singh GC Leong Old NCERT History GIST of NCERT Objective General Studies Subjectwise Question Bank based on Previous Papers for UPSC State PSC UPSC IAS Book UPSC IAS Admit Card UPSC IAS Syllabus and Exam Pattern UPSC IAS Notification UPSC IAS Exam date UPSC IAS Recruitment UPSC IAS Salary UPSC IAS Eligibility **INFORMATICS** VIJAYAKUMARAN NAIR K., VINOD CHANDRA S.S., 2014-07-18 The book provides an overview of the basic concepts of informatics Dealing with the concerns and issues of digital technology the text has been written with the objective of introducing students with the tools and applications of information technology highlighting its use by the digital society It creates awareness on the nature of emerging digital knowledge society and social issues Organized into six chapters the book explains the fundamentals of informatics besides sharing and analyzing the consequences of rapid computerization Beginning with an overview of information technology explaining evolution of computers computer classification computer hardware and networking the book moves to the Internet which is considered as a knowledge repository It then explains IPR copyright patents and software license agreement The book also highlights and discusses social informatics e Governance applications of informatics in various subject areas and futuristic IT The book is primarily intended as a text for undergraduate and postgraduate students of various disciplines wherein Informatics is prescribed as a core or foundation course The book will also be of immense use to general readers who are interested in knowing the applications of information technology Key Features 1 Provides updated information as per the course curriculum of many universities 2 Includes labeled and immaculate illustrations for clear understanding of the concepts 3 Chapter end review questions to reinforce to concepts understanding and to help students prepare for examinations 4 Presents an extensive glossary of technical terms Solution Manual is available for adopting faculty **The NIH Record**, 1988 **(Free Sample) Chapter-wise NCERT + Exemplar + PAST 13 Years Solutions for CBSE Class 12 Biology 7th Edition** Disha Experts, 2021-07-21 Modern Biotechnology Nathan S. Mosier, Michael R. Ladisch, 2011-09-20 A unique resource for the next generation of biotech innovators Enabling everything from the deciphering of the human genome to environmentally friendly biofuels to lifesaving new pharmaceuticals biotechnology has blossomed as an area of discovery and opportunity Modern Biotechnology provides a much needed introduction connecting the latest innovations in this area to key engineering fundamentals With an unmatched level of coverage this unique resource prepares a wide range of readers for the practical application of biotechnology in biopharmaceuticals biofuels and other bioproducts Organized into fourteen sections reflecting a typical semester course

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The Science and Standards of Forensics United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2013

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