Protein Synthesis Lab

Purpose:

Recognize that the sequence of bases in DNA determines the shape, structure, and function of a protein.

Materials:

- Scissors
- Construction paper

- White paper
- Lab handout

- Pencil
- Tape

Background:

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C, G, A, and T. The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Because of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of eukaryotic cells.

DNA is organized into sections called genes. Gene code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins that serve as the building blocks of cells and bodies. They also function as enzymes, who are the little molecular chemists in bodies.

Proteins are made in the cytoplasm by protein factories called ribosomes. So, the information from DNA must be transmitted from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for mRNA molecules. The mRNA is made by matching its complementary bases- C, G, A, and U to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the p[protein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three called codons. Another type of RNA, tRNA, brings the protein building blocks, amino acids, to the ribosome as they are needed. The ribosome bonds the amino acids together to build the protein coded for by the gene back in the nucleus.

Procedure:

 Your group should obtain one sheet of paper with your four sections of DNA. Cut the strips out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the desk from left (#1) to right (#4). See the diagram below.



- 2. We are going to use this section of our DNA as a gene to make a protein the cell needs. Remember it used to be part of a double-stranded DNA molecule. But it has already been unzipped and now will be used as the template to build your mRNA, one base at a time. So first design an RNA polymerase enzyme to do this mRNA synthesis job.
- TRANSCRIPTION: You have been supplied with mRNA nucleotide bases. Build a mRNA
 molecule from this gene by matching the mRNA bases to your DNA template, one base at a
 time. Tape this mRNA molecule along its length to simulate the strong bonds that the RNA
 polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

From Dna To Protein Synthesis Lab Answers

V. H. T. James, J. R. Pasqualini

From Dna To Protein Synthesis Lab Answers:

Uncover the mysteries within is enigmatic creation, Discover the Intrigue in **From Dna To Protein Synthesis Lab Answers**. This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

https://staging.conocer.cide.edu/About/Resources/Documents/math_maintenance_grade_answer_key.pdf

Table of Contents From Dna To Protein Synthesis Lab Answers

- 1. Understanding the eBook From Dna To Protein Synthesis Lab Answers
 - The Rise of Digital Reading From Dna To Protein Synthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying From Dna To Protein Synthesis Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an From Dna To Protein Synthesis Lab Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from From Dna To Protein Synthesis Lab Answers
 - Personalized Recommendations
 - From Dna To Protein Synthesis Lab Answers User Reviews and Ratings
 - From Dna To Protein Synthesis Lab Answers and Bestseller Lists
- 5. Accessing From Dna To Protein Synthesis Lab Answers Free and Paid eBooks
 - From Dna To Protein Synthesis Lab Answers Public Domain eBooks
 - From Dna To Protein Synthesis Lab Answers eBook Subscription Services
 - From Dna To Protein Synthesis Lab Answers Budget-Friendly Options
- 6. Navigating From Dna To Protein Synthesis Lab Answers eBook Formats

- o ePub, PDF, MOBI, and More
- From Dna To Protein Synthesis Lab Answers Compatibility with Devices
- From Dna To Protein Synthesis Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of From Dna To Protein Synthesis Lab Answers
 - Highlighting and Note-Taking From Dna To Protein Synthesis Lab Answers
 - Interactive Elements From Dna To Protein Synthesis Lab Answers
- 8. Staying Engaged with From Dna To Protein Synthesis Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers From Dna To Protein Synthesis Lab Answers
- 9. Balancing eBooks and Physical Books From Dna To Protein Synthesis Lab Answers
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection From Dna To Protein Synthesis Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine From Dna To Protein Synthesis Lab Answers
 - Setting Reading Goals From Dna To Protein Synthesis Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of From Dna To Protein Synthesis Lab Answers
 - Fact-Checking eBook Content of From Dna To Protein Synthesis Lab Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

From Dna To Protein Synthesis Lab Answers Introduction

In todays digital age, the availability of From Dna To Protein Synthesis Lab Answers books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of From Dna To Protein Synthesis Lab Answers books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of From Dna To Protein Synthesis Lab Answers books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing From Dna To Protein Synthesis Lab Answers versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, From Dna To Protein Synthesis Lab Answers books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing From Dna To Protein Synthesis Lab Answers books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for From Dna To Protein Synthesis Lab Answers books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical

documents. In conclusion, From Dna To Protein Synthesis Lab Answers books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of From Dna To Protein Synthesis Lab Answers books and manuals for download and embark on your journey of knowledge?

FAQs About From Dna To Protein Synthesis Lab Answers Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. From Dna To Protein Synthesis Lab Answers is one of the best book in our library for free trial. We provide copy of From Dna To Protein Synthesis Lab Answers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with From Dna To Protein Synthesis Lab Answers. Where to download From Dna To Protein Synthesis Lab Answers online for free? Are you looking for From Dna To Protein Synthesis Lab Answers PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another From Dna To Protein Synthesis Lab Answers. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of From Dna To Protein Synthesis Lab Answers are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free

access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with From Dna To Protein Synthesis Lab Answers. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with From Dna To Protein Synthesis Lab Answers To get started finding From Dna To Protein Synthesis Lab Answers, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with From Dna To Protein Synthesis Lab Answers So depending on what exactly you are searching, you will be able tochoose ebook to suit your own need. Thank you for reading From Dna To Protein Synthesis Lab Answers. Maybe you have knowledge that, people have search numerous times for their favorite readings like this From Dna To Protein Synthesis Lab Answers, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. From Dna To Protein Synthesis Lab Answers is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, From Dna To Protein Synthesis Lab Answers is universally compatible with any devices to read.

Find From Dna To Protein Synthesis Lab Answers:

math maintenance grade answer key
math may 2014 6664 01r paper
math practice for 5th grade armt 2013
math kangaroo 20grade 5
math u see algebra 2 solutions manual
mathematical literacy 2014 june exam paper 2 grade 12
math regents 2013 answer key
mathematical lit p2 november 2014 grd12
mathcounts 2002 national sprint round
math 5th grade word problems
math 8 sol review packet

maternity nursing lowdermilk 8th edition

mathbits answers alge2caching box1

math writing prompts 2nd grade

math 22common mathematics assessment

From Dna To Protein Synthesis Lab Answers:

where in asia is malaysia geography literacy for - Feb 08 2023

web abebooks com where in asia is malaysia geography literacy for kids children s asia books 9781541915923 by baby professor and a great selection of similar new used

where in asia is malaysia geography literacy for kids - Sep 03 2022

web where in asia is malaysia geography literacy for kids children's asia books by baby professor and a great selection of related books art and collectibles available now at

where in asia is malaysia geography literacy for kids - Dec 06 2022

web buy where in asia is malaysia geography literacy for kids children's asia books by baby professor online at alibris we have new and used copies available in 1 editions

geography of malaysia wikipedia - Nov 05 2022

web dec 1 2017 did you know that there are lots of small countries with unique physical and cultural characteristics in asia one of these is malaysia let s visit malaysia by reading

where in asia is malaysia geography literacy for pdf - Dec 26 2021

where in asia is malaysia geography literacy for kids - Jan 07 2023

web dec 1 2017 where in asia is malaysia geography literacy for kids children's asia books by baby professor 9781541915923 available at book depository with free

where in asia is malaysia geography literacy for kids scribd - Aug~14~2023

web did you know that there are lots of small countries with unique physical and cultural characteristics in asia one of these is malaysia let s visit malaysia by reading the information and seeing the pictures in this book books have the power to take you

where in asia is malaysia geography literacy for kids - May 11 2023

web dec 1 2017 did you know that there are lots of small countries with unique physical and cultural characteristics in asia one of these is malaysia let s visit malaysia by reading

malaysia history flag map population language - Aug 02 2022

web buy where in asia is malaysia geography literacy for kids children's asia books paperback book by baby professor from as low as 12 76

where in asia is malaysia geography literacy for kids - Apr 29 2022

web mar 4 2017 1 letak geografis malaysia terletak di daerah ekuator dan memiliki iklim hutan hujan tropis terletak di dekat khatulistiwa iklim malaysia dikategorikan sebagai

where in asia is malaysia geography literacy for - Apr 10 2023

web geography literacy for kids children's asia books ebook written by baby professor read this book using google play books app on your pc android ios devices

where in asia is malaysia geography literacy for kids - Oct 04 2022

web find many great new used options and get the best deals for where in asia is malaysia geography literacy for kids children s asia books by baby professor 2017 trade

where in asia is malaysia geography literacy for uniport edu - Sep 22 2021

where in asia is malaysia geography literacy for kids - Jul 13 2023

web did you know that there are lots of small countries with unique physical and cultural characteristics in asia one of these is malaysia let s visit malaysia by reading the

malaysia geografi org - Nov 24 2021

where asia malaysia geography abebooks - Mar 29 2022

web sep 12 2023 across south and southeast asia countries have very different religious makeups yet there are commonalities in how they practice and think about religion

letak geografi malaysia lengkap dengan kondisinya detiktravel - Jan 27 2022

web where in asia is malaysia geography literacy for kids children s asia books baby professor amazon com au books where in asia is malaysia overdrive - May 31 2022

web apr 13 2023 where in asia is malaysia geography literacy for 2 10 downloaded from uniport edu ng on april 13 2023 by guest ways and to different degrees on the society

where in asia is malaysia geography literacy for kids - Aug 22 2021

where in asia is malaysia geography literacy for kids alibris - Jul 01 2022

web oct 20 2020 berikut penjelasan letak geografi malaysia secara astronomis malaysia barat terletak di posisi 01 0 06 9 lu dan 99 6 104 8 bt sedangkan bagian malaysia

where in asia is malaysia geography literacy for kids - Feb 25 2022

web may 31 2023 malaysia geography literacy for can be taken as well as picked to act pacific asia david w drakakis smith 2002 01 31 pacific asia from burma to papua

where in asia is malaysia geography literacy for kids - Mar 09 2023

web where in asia is malaysia geography literacy for kids children s asia books ebook professor baby amazon com au kindle store

where in asia is malaysia geography literacy for kids - Jun 12 2023

web nov 5 2021 did you know that there are lots of small countries with unique physical and cultural characteristics in asia one of these is malaysia let s visit malaysia by

5 facts about religion in south and southeast asia - Oct 24 2021

where to start with haruki murakami the guardian - Aug 04 2023

web jul 27 2023 where to start with haruki murakami the acclaimed japanese author's deceptively simple writing combines fantasy and reality in stories of everything from missing cats to dystopian histories

haruki murakami the new yorker - Feb 27 2023

web haruki murakami has published more than a dozen novels including norwegian wood kafka on the shore 1q84 and killing commendatore and several short story collections

books by haruki murakami author of norwegian wood goodreads - Dec 28 2022

web showing 30 distinct works previous 1 2 3 4 5 6 7 8 9 22 23 next sort by previous 1 2 3 4 5 6 7 8 9 22 23 next note these are all the books on goodreads for this author to add more books click here haruki murakami has 665 books on goodreads with 7387780 ratings haruki murakami s most popular book is norwegian wood

haruki murakami wikipedia - Oct 06 2023

web haruki murakami [][] [][] murakami haruki born january 12 1949 is a japanese writer his novels essays and short stories have been bestsellers in japan and internationally with his work translated into 50 languages 2 and having sold millions of copies outside japan

eight ways of looking at haruki murakami the new york times - Jan 29 2023

web apr 6 2021 haruki murakami elena seibert charlie parker plays bossa nova is a fanfic love song powered by a compassionate desire to resurrect it starts with a review of an imaginary parker album

haruki murakami biography books facts britannica - Jul 03 2023

web nov 1 2023 haruki murakami is a japanese novelist short story writer and translator whose deeply imaginative and often ambiguous books became international bestsellers his notable novels included norwegian wood the wind up bird chronicle and 1q84 learn more about murakami s life and work

haruki murakami - Sep 05 2023

web the official us site of haruki murakami enter murakami s world to explore the books read interviews discover music browse image galleries and much more

author haruki murakami - Mar 31 2023

web the official us site of haruki murakami enter murakami s world to explore the books read interviews discover music browse image galleries and much more haruki murakami author

haruki murakami author of norwegian wood goodreads - May 01 2023

web murakami haruki japanese [] [] is a popular contemporary japanese writer and translator his work has been described as easily accessible yet profoundly complex he can be located on facebook at facebook com harukimuraka the 20 best haruki murakami books ranked reedsy discovery - Jun 02 2023

web the 20 best haruki murakami books ranked if you re looking for stories that turn the universal problems of isolation happiness and identity into bizarre and often mysterious adventures look no further than haruki murakami books though strongly influenced by western literature famously by franz kafka and raymond chandler murakami s

bsc nursing first year nursing foundation notes pdf free in 2023 - Feb 28 2022

web sep 25 2023 this bsc nursing 1st year notes pdf is made based on the indian nursing council inc syllabus and is easy to access the nursing foundation is an important subject for bsc 1st year students nursing foundation lecture notes are prepared according to the inc syllabus and other major university syllabus also

anatomy and physiology chapter 1 lecture notes for first year studocu - Sep 06 2022

web anatomy and physiology chapter 1 lecture notes for first year bsn students readings from anatomy physiology body planes level of organization structures

bsc nursing 1st year syllabus pdfs subjects books question - Apr 01 2022

web date february 21 2022 comments 1 comment the nursing syllabus aids you in acquiring vital skills and knowledge which help you to save lives nursing students gain knowledge of anatomy microbiology physiology biochemistry and psychology bsc nursing first year anatomy notes book pdf nurse info bsc - Aug 17 2023

web anatomy notes book is written fork bsc nursing and gnm nursing first year students notes book contain detailed answers and included 15 time solved question and answers anatomy nursing presentation notes is prepared pursuant at the inc

teachers and other major university syllabus

bsc nursing first year anatomy and physiology notes book pdf - Mar 12 2023

web rated 5 00 out of 5 based on 5 customer ratings 5 customer reviews anatomy and physiology notes book is for both bsc nursing and gnm first year nursing students notes book includes detailed answers written in simple language based on inc syllabus it s available in pdf format for reading

anatomy and physiology nurse info - Jun 03 2022

web anatomy and physiology book pdf for nursing m b b s bds dmlt physiotherapy pharmacy read more applied anatomy notes book pdf for bsc nursing students read more applied physiology notes book pdf for bsc nursing students read more bsc nursing first year anatomy and physiology

bsc nursing 1st year anatomy notes pdf download free in 2023 - Oct 19 2023

web oct 23 2023 parts of the skeletal system axial skeleton appendicular skeleton functions of bones bones of the human body classification of bones classification of bones based on shape structures of a long bone bone growth and bone cells download now unit iii bsc nursing 1st year anatomy notes pdf

anatomy and physiology important questions b sc first year nursing - Jul 04 2022

web anatomy and physiology important questions b sc first year nursing rguhs applied anatomy and physiology important questions bsc first year new inc syllabus 2023 applied anatomy important questions long essays 10 marks describe the autonomic nervous system describe the thyroid gland describe

bsc nursing first year anatomy and physiology notes book - May 14 2023

web jun 11 2019 this nursing book will aid the nursing students to learn anatomy and physiology key easily we have provided 15 years question bank along with choose that breastfeed scholars can utilize to prepare for examinations this nursing lecture notes are granted stylish free pdf format

bsc nursing first year anatomy and physiology notes book - Jun 15 2023

web jun 11 2019 anatomy and physiology nursing lecture notes is prepared according go the inc curricula and other major university syllabus this nursing book will aid aforementioned nursing students to learn anatomy real physiology concepts easy

unit 4 nervous system part 1 anatomy and physiology notes of bsc - Aug 05 2022

web mar 4 2023 i upload unit 4 nervous system part 1 anatomy and physiology bsc nursing 1st year notes if anyone wants pdf file then open this pdf link drive googl

physiology bsc nursing 1st year notes pdf free download 2023 - Nov 08 2022

web sep 20 2023 topicwise download physiology bsc nursing 1st year notes pdf this physiology bsc nursing first year notes

are prepared to follow the indian nursing council syllabus so these notes will be very helpful for the bsc nursing freshers students who have recently taken admission on bsc nursing

bsc nursing 1st year notes pdf download 2023 noteswallah in - Jul 16 2023

web aug 11 2022 download bsc nursing 1st year notes for the nursing students we have a collection of the largest handwritten and computerized pdf notes for bsc nursing 1st year students download anatomy nutrition biochemistry nursing foundation psychology and microbiology topic wise pdf notes for free from noteswallah in

bsc nursing 1st year anatomy physiology tissue part 01 - Feb 11 2023

web for more such videos download our mobile app from google playstore bit ly lecturesworldfollow us on instagram instagram com lecturesworld fo

bsc nursing first year anatomy and physiology notes book - Dec 09 2022

web bsc nursing first year anatomy and physiology notes book pdf nurse info university los angeles southwest college course human anatomy and physiology biology 020

bsc nursing 1st year notes pdf free download - Apr 13 2023

web oct 25 2023 anatomy bsc nursing 1st year notes pdf free download physiology bsc nursing 1st year notes pdf download link nutrition bsc nursing 1st year notes pdf download link biochemistry bsc nursing 1st year notes pdf download link nursing foundation bsc nursing 1st year notes pdf free download psychology

1st year basic bsc nursing anatomy word notes in details - Jan 10 2023

web 1st year basic bsc nursing anatomy word notes in details read online for free imp

applied anatomy notes book pdf for bsc nursing - May 02 2022

web applied anatomy notes book for nurses revised inc syllabus 2021 pdf this applied anatomy notes book pdf is prepared based on inc revised syllabus 2021 applied anatomy notes is prepared in simple language easy to understand for nursing students and notes book available in pdf soon we will upload notes in hindi coming

bsc nursing first year anatomy notes book pdf nurse info - Sep 18 2023

web anatomy notes book is written for bsc nursing and gnm nursing first year students notes book contain detailed answers and included 15 years solved question and answers anatomy nursing lecture notes is prepared according to the inc syllabus and other major university syllabus

best books for a bsc nursing first year nursingnotes - Oct 07 2022

web best books for a bsc nursing first year according inc syllabus anatomy physiology biochemistry nutrition psychology microbiology foundation of nursing home study notes