

Study Guide Bacteria, Viruses and the Immune System

Bacteria

1. What are the basic shapes of bacteria cells?
spherical (cocci), rod (bacilli), spiral (spirilla), comma (vibrios) or corkscrew (spirochaetes).
2. What happens during conjugation of bacteria?
Transfer of genetic material between bacterial cells by direct cell-to-cell contact or by a bridge-like connection between two cells.
3. How do the three major classes of antibiotics work to kill bacteria?
 - a. Beta-Lactam -- Penicillin derivatives, cephalosporins, monobactams, carbapenems and carbacephem's.
 - b. Macrolides -- Treating respiratory, skin, soft tissue, sexually transmitted
 - c. Quinolones -- These enzymes relax DNA supercoils and enable DNA replication and repair

Virus

4. What is the basic structure of a virus?
The simplest virions consist of two basic components: nucleic acid (single- or double-stranded RNA or DNA) and a protein coat
5. What is happening during the two viral cycles:
 - a. lytic cycle
The virus hijacks the host cell, degrades the host chromosome, and makes more viral genomes.
 - b. lysogenic cycle
The lytic cycle leads to the death of the host, whereas the lysogenic cycle leads to integration of phage into the host genome
6. Why are vaccines less effective against RNA viruses?

Examples like the flu vaccine work by coding for a specific type of antigen which are only made for individual specific viruses. In which case Vaccines would take more time and building to be more effective.

Immunity & Immune System

7. The first line of defense against infections includes skin, mucus, cilia, saliva and stomach acid. Briefly describe how each of these protects us from potential invaders:
 - a. Skin – Protects from microbes and the elements, helps regulate body temperature, and permits the sensations of touch, heat, and cold.
 - b. Mucus – Mucus traps inhaled particles like dust, allergens, bacteria, or viruses and keeps them from getting deeper into your lungs.
 - c. Cilia – The special cells line and protect the nose, throat and other passages within your body. The inner lining of your gut and lungs also produces mucus to trap invading pathogens
 - d. Stomach acid – The hydrochloric acid kills bacteria, protecting your body from harmful microbes which can enter your body in food

Study Guide Bacteria And Virus Biology

Disha Experts



Study Guide Bacteria And Virus Biology:

Biology Facts And Principles 1 (Speedy Study Guides) Speedy Publishing, 2015-01-29 A biology study guide that outlines the basic facts and principles can help students study in many ways Often times students get overwhelmed in so much detail that they forget the basics Study guides can help students learn basic terminology and concepts that will then help them build a higher knowledge Condensing knowledge into a one page sheet can help reinforce the most important points and can be used for a quick review reference as well **2024-25 TGT/PGT Biology Study Material** YCT Expert Team , 2024 25 TGT PGT Biology Study Material **Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **2025-26 TGT/PGT Biology Study Material** YCT Expert Team , 2025 26 TGT PGT Biology Study Material 448 895 E This book contains the important study material for revision before examination Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Biology Terminology (Speedy Study Guides)** Speedy Publishing, 2015-01-29 A biology terminology study guide will help one understand the technical language used in any field related to biology It also allows one to understand the basic building blocks of the greek and latin used within all scientific fields This will help one understand even unfamiliar words within biology and any other related field of science Study Guide for 31840 - Biology-First Edition Neil A. Campbell, 1987 Study Guide, Biology of Microorganisms, Fifth Edition, Thomas D. Brock & Michael T. Madigan Allan Konopka, Thomas D. Brock, 1988 **Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990 **Biology, Study Guide** Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life **Cell and Molecular Biology, Problems Book and Study Guide** Gerald Karp, 2001-09-25 Balances coverage of the concepts of cell and

molecular biology using examples of experimentation to support those concepts As experimental techniques become more diverse and complex it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology This text describes in detail some of the key experimental findings along with the original data and figures

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Study Guide to Accompany Raven and Johnson Biology David A. Stetler,1986 **Study Guide to Accompany Biology, the Science of Life, Third Edition** W. J. Leverich,1991 **MEGA Study Guide for NTSE (SAT, MAT & LCT) Class 10 Stage 1 & 2 - 11th Edition** Disha Experts,2019-03-12 This new 11th edition of MEGA Study Guide for NTSE Class 10 is empowered with the inclusion of 2018 Stage I questions of the different states The book is based on the yllabus of Class 8 9 10 as prescribed by NCERT The book also comprises of Past questions of NTSE Stage 1 2 from the years 2012 2018 There are now 28 chapters in the Mental Ability Section MAT The Scholastic Aptitude section SAT has been divided into 9 parts Physics Chemistry Biology Mathematics English History Geography Civics and Economics The book provides past questions of last 10 years of NTSE Stage 1 2 JSTSE papers divided chapter wise The book provides sufficient pointwise theory solved examples followed by Fully Solved exercises in 2 levels State UT level National level Maps Diagrams and Tables to stimulate the thinking ability of the student The book covers new variety of questions Passage Based Assertion Reason Matching Definition based Statement based Feature Based Diagram Based and Integer Answer Questions **Study Guide to Accompany Biology, Third Edition, by Arms & Camp** Virginia Fry,1987 *Summary & Study Guide - A Crack in Creation* Lee Tang,2017-08-01 *Power and Peril of Gene Editing CRISPR Cas9 Technology* This book is a summary of A Crack in Creation Gene Editing and the Unthinkable Power to Control Evolution by Jennifer A Doudna and Samuel H Sternberg This book tells the story of CRISPR and gene editing CRISPR is a cutting edge gene editing technology that mimics what happens naturally in bacteria It enables scientists to play god with plant or animal DNA with unlimited power and peril The technology of gene editing is the most important advance in our era The possibility of forever altering the genetic composition of humankind is frightening Yet we can t overlook the opportunities that may lead to inventions for cures of HIV debilitating genetic diseases and cancers and end food shortages The book will demystify this exciting area of science and inspire you to seek answers to tough moral and ethical questions on the use of this technology Read this book and get involved in the debate on the moral and ethical issues on the use of this technology This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Value added from this guide Save time Understand key concepts Expand your knowledge **MEGA Study Guide for NTSE 2021 (SAT & MAT) Class 10 Stage 1 & 2 - 12th Edition** Disha Experts,2020-05-13 This new 12th edition of MEGA Study Guide for NTSE 2021 Class 10 is empowered with the inclusion of 2020 Stage I questions of the different states The book is based on the syllabus of Class 8 9 10 as

prescribed by NCERT There are 27 chapters in the Mental Ability Section MAT The Scholastic Aptitude section SAT has been divided into 8 parts Physics Chemistry Biology Mathematics History Geography Civics and Economics The book provides past questions of last 10 years of NTSE Stage 1 2012 2020 Stage 2 2012 2019 JSTSE papers divided chapter wise The book provides sufficient pointwise theory solved examples followed by Fully Solved exercises in 2 levels State UT level National level Maps Diagrams and Tables to stimulate the thinking ability of the student The book covers new variety of questions Passage Based Assertion Reason Matching Definition based Statement based Feature Based Diagram Based and Integer Answer Questions

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