

Biology Final Exam Study Guide

1. Virus – An infectious particle consisting of genes packaged in a protein coat
2. Structure of a Virus:
 - a. Viruses are not cells
 - b. Virus Very small infectious particle consisting of nucleic acid enclosed in a protein coat and a membranous envelope
3. Viral Genome consists of...
 - a. Double or Single stranded DNA OR
 - b. Double or Single stranded RNA
 - i. The genome A single linear or circular molecule of the nucleic acid
4. Bacteriophage – Also called phages, are viruses that infect bacteria
 - a. Have an elongated capsid head that encloses their DNA
 - b. A protein tail piece attaches the phage to the host and injects the phage DNA inside
5. Lytic Cycle – A phage replicative cycle that culminates in the death of the host cell
 - a. Produces new phages and lyses (breaks open) the host's cell wall, releasing the progeny viruses
 - b. Virulent Phage - A phage that reproduces only by the lytic cycle
6. Lysogenic Cycle – Replicates the phage genome without destroying the host
 - a. The viral DNA molecule is incorporated into the host cell's chromosome
 - b. Temperate Phages – Phages that use both the lytic and lysogenic cycles
7. HIV – The retrovirus that causes AIDS (acquired immunodeficiency syndrome)
 - a. Retroviruses use reverse transcriptase to copy their RNA genome into DNA
8. Provirus – The viral DNA that is integrated into the host genome
 - a. Unlike a prophage, a provirus remains a permanent resident of the host cell
 - b. RNA polymerase transcribes the pro – viral DNA into RNA molecules
 - c. The RNA molecules function both as mRNA for synthesis of viral proteins and as genomes for new virus particles released from the cell
9. Chicken Pox – A highly contagious viral infection causing an itchy, blister-like rash on the skin
10. AIDS – A chronic, potentially life – threatening condition caused by HIV. By damaging your immune system, HIV interferes with your body's ability to fight the organisms that cause disease
11. Measles – A viral infection that's serious for small children but is easily preventable by a vaccine. The disease spreads through the air by respiratory droplets produced from coughing or sneezing
12. Influenza – A common viral infection that can be deadly, especially in high – risk groups. The flu attacks the lungs, nose, and throat
13. TB – Tuberculosis (TB) is a disease caused by bacteria called *Mycobacterium tuberculosis*. The bacteria usually attack the lungs, but they can also damage other parts of the body
14. Syphilis – A bacterial infection usually spread by sexual contact that starts as a painless sore

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Pinnacle Test Prep



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Cambridge IGCSETM Biology Study and Revision Guide Third Edition Dave Hayward, 2022-10-28 Stretch yourself to achieve the highest grades with structured syllabus coverage varied exam style questions and annotated sample answers to help you to build the essential skill set for exam success Benefit from expert advice and tips on skills and knowledge from experienced subject authors Target revision and focus on important concepts and skills with key objectives at the beginning of every chapter Keep track of your own progress with a handy revision planner Consolidate and apply your understanding of key content with revision activities short Test yourself and exam style questions Apply your understanding of essential practical and mathematical skills with Skills boxes including worked examples *TISS-NET Exam Prep Book | 1400+ Solved Questions (8 Full-length Mock Tests + 9 Sectional Test + 3 Previous Year Paper)* EduGorilla Prep Experts, 2022-08-03 Best Selling Book for TISS NET Exam with objective type questions as per the latest syllabus given by the Tata Institute of Social Sciences Compare your performance with other students using Smart Answer Sheets in EduGorilla s TISS NET Exam Practice Kit TISS NET Exam Preparation Kit comes with 20 Tests 8 Full length Mock Tests 9 Sectional Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X TISS NET Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts *Resources in Education* ,2000-10 **Off to College** Roger H. Martin, 2015-08-04 What should parents expect during their child s first year of college Roger Martin double president emeritus of two colleges spent a year visiting five diverse colleges public and private large and small elite and non elite in order to offer the parents of college bound seniors a comprehensive overview of the first year college experience In addition to a stint with dorm life and time with students and professors Martin draws from conversations with a wide variety of campus administrators and staff members in financial aid campus police sports health care and disabilities accommodations We join Martin for example as he and a campus safety officer walk around campus on a busy Saturday night While Off to College deals with more traditional topics such as the financial challenges of college homesickness and time management it also tackles more complex contemporary issues that college freshman may encounter There are sections devoted to date rape drinking campus shootings and depression as well as chapters targeted at athletes minorities and first generation students We can boast in this book not only a most appropriate and uniquely positioned author but also one full of information and good advice from campus sources Off to College promises to be an encouraging and extremely well informed guide for any parent sending their child off to a four year residential college *Medical School Admission* James S. Nelson, 1974 **Atlanta Magazine** ,2006-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only

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