

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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J Rink



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Table of Contents Biology Final Exam Study Guide Completion Statements

1. Understanding the eBook Biology Final Exam Study Guide Completion Statements
 - The Rise of Digital Reading Biology Final Exam Study Guide Completion Statements
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Final Exam Study Guide Completion Statements
 - 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 Biology Final Exam Study Guide Completion Statements
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Final Exam Study Guide Completion Statements
 - Personalized Recommendations
 - Biology Final Exam Study Guide Completion Statements User Reviews and Ratings
 - Biology Final Exam Study Guide Completion Statements and Bestseller Lists

5. Accessing Biology Final Exam Study Guide Completion Statements Free and Paid eBooks
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 - Biology Final Exam Study Guide Completion Statements eBook Subscription Services
 - Biology Final Exam Study Guide Completion Statements Budget-Friendly Options
6. Navigating Biology Final Exam Study Guide Completion Statements eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Final Exam Study Guide Completion Statements Compatibility with Devices
 - Biology Final Exam Study Guide Completion Statements Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Final Exam Study Guide Completion Statements
 - Highlighting and Note-Taking Biology Final Exam Study Guide Completion Statements
 - Interactive Elements Biology Final Exam Study Guide Completion Statements
8. Staying Engaged with Biology Final Exam Study Guide Completion Statements
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Final Exam Study Guide Completion Statements
9. Balancing eBooks and Physical Books Biology Final Exam Study Guide Completion Statements
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Final Exam Study Guide Completion Statements
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Final Exam Study Guide Completion Statements
 - Setting Reading Goals Biology Final Exam Study Guide Completion Statements
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Final Exam Study Guide Completion Statements
 - Fact-Checking eBook Content of Biology Final Exam Study Guide Completion Statements
 - 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

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