

## 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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## **Table of Contents Modern Biology Final Study Guide**

1. Understanding the eBook Modern Biology Final Study Guide
  - The Rise of Digital Reading Modern Biology Final Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Final Study Guide
  - 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 Modern Biology Final Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Final Study Guide
  - Personalized Recommendations
  - Modern Biology Final Study Guide User Reviews and Ratings
  - Modern Biology Final Study Guide and Bestseller Lists
5. Accessing Modern Biology Final Study Guide Free and Paid eBooks
  - Modern Biology Final Study Guide Public Domain eBooks
  - Modern Biology Final Study Guide eBook Subscription Services

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