

## 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

# Prentice Hall Biology Final Exam Study Guide

**Jiyuan Zhang**



## **Prentice Hall Biology Final Exam Study Guide:**

## **Prentice Hall Biology Final Exam Study Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Prentice Hall Biology Final Exam Study Guide**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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