

## 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

# Biology Final Exam 2013 Study Guide Answers

**Xiang Xie**



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