Biology Final Exam Study Guide

- 1. Virus An infectious particle consisting of genes packaged in a protein coat
- Structure of a Virus:
  - a. Viruses are not cells
  - 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.
- Bacteriophage Also called phages, are viruses that infect bacteria
  - Have an elongated capsid head that encloses their DNA
  - A protein tail piece attaches the phage to the host and injects the phage DNA inside
- 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
- Lysogenic Cycle Replicates the phage genome without destroying the host
  - The viral DNA molecule is incorporated into the host cell's chromosome
  - Temperate Phages Phages that use both the lytic and lysogenic cycles
- HIV The retrovirus that causes AIDS (acquired immunodeficiency syndrome)
  - 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
- 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.
- 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
- Syphilis A bacterial infection usually spread by sexual contact that starts as a painless sore

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**L** Reisser

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