

## 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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## **Biology 10final Exam Study Guide:**

**The National Guide to Educational Credit for Training Programs** American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies *Directory of Distance Learning Opportunities* Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation College Study Skills Dianna L. Van Blerkom, 2005-03 Learn how to learn more effectively This comprehensive text helps you identify your learning style and select the most appropriate learning strategies for you With hands on self assessment tools and examples of how different learning strategies are applied this book will help you get the most out of the college learning experience Back cover **Competition Science Vision** , 2006-07 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue Educational Research Document Summaries Educational Research Information Center (U.S.), 1966 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1967 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **El-Hi textbooks in print** R. R. Bowker LLC, 1983 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1977-07 **Peterson's Guide to Graduate Programs in the Biological Sciences 1997** Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master s doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline

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