

Virology Exam 1 Study Guide

Module 1

- **Understand that viruses are everywhere, they have both positive and negative impacts on earthly life, they infect all living things, and can be beneficial as well as harmful.**
 - Viruses are one of the most abundant life forms on the planet- more in one liter of sea water than there are people on the earth
 - Not all viruses are pathogenic
 - **Benefit**- can help prime immune response, they make up a significant portion of the human genome, about 8%
 - **Major biological discoveries**- DNA is the heritable genetic material, components of the immune response
 - **New techniques**- reverse transcription, genome editing
 - **Curing disease**- gene therapy, oncolytic viral therapy
 - Viruses still cause a massive amount of disease
 - **Life-threatening illness**- AIDS, Influenza, Rabies, SARS, Ebola
 - **"Inconvenient illness"**- diarrhea (norovirus, rotavirus), colds (rhinovirus), Warts/Blisters/Cold sores (HPV, Herpes virus)
 - **Cancer** (20% of the cancer burden)- cervical cancer (papilloma viruses), Kaposi's sarcoma (herpes virus), Liver cancer (Hep B and C)
- **The basic characteristics of viruses (i.e. obligate intracellular parasites, have a capsid, genome, size, etc.) and how these characteristics impact virus survival and replication (i.e. completely dependent on host, host tropism, etc.).**
 - **Obligate intracellular parasites**- can only grow inside host cell but those on surfaces are still able to cause disease. They can survive on surfaces even if they cannot grow so they can be transmitted
 - **Virus structure and classification**
 - **Size**- 100 times smaller than bacteria, 1000 times smaller than eukaryotic cell. Within themselves, viruses vary widely in size(20nm-600nm)- we have known about small viruses longer than we have known about the larger viruses. Electron microscopes are used to visualize most viruses but giant viruses can be seen through a light microscope
 - **Shape**- Capsid =protein coat. Capsomers form different shapes (icosahedral, helical, prolate/complex-specific to bacteriophage).
 - **Nucleic acid**- ssDNA, dsDNA, ssRNA, dsRNA
 - **Envelope**- enveloped or non-enveloped (naked)
 - **Type of host**- bacteria (bacteriophages), Eukaryotic cells, or plant cells.
- **Virus history timeline presented in the lecture**
 - Viral infections were treated before viruses were discovered
 - Ancient civilizations proposed legislation to penalize dog owners if they bite someone and give them rabies
 - Egyptian tablet depicted the possibility of polio with a man with a crippled leg

Virology A Study Guide For Your Final Exam 1

David Baud



Virology A Study Guide For Your Final Exam 1:

Microbiology Charles W. Kim,1995 This question and answer review book includes 700 multiple choice exam type questions enlarged explanatory answers referenced to widely adopted texts and subject areas based on the content outline of the USMLE Step 1 **Archives of Pathology & Laboratory Medicine** ,1996 **Medical Books and Serials in Print** ,1983 The American Biology Teacher ,2006 *Books in Print Supplement* ,2002 **The Software Encyclopedia 2001** ,2001 **The Advocate** ,1995-12-12 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United States **Lab World** ,1973 **Subject Guide to Books in Print** ,1984 **Medical and Health Care Books and Serials in Print** ,1987 **The Medical Teacher** Kenneth R. Cox,Christine E. Ewan,1982 Journal of the American Veterinary Medical Association American Veterinary Medical Association,2011 Vols for 1915 49 and 1956 include the Proceedings of the annual meeting of the association **British Book News** British Council,1988 Includes no 53a British wartime books for young people **Bowker's Medical Books in Print** ,1975 *Hospital Medicine* ,2001 *British Books in Print* ,1985 **Forthcoming Books** Rose Army,1997-12 **Emergency Medical Services** ,2002 Report of the 3d-4th Congress of the Sanitary Institute of Great Britain Royal Society of Health (Great Britain),1966 **The British National Bibliography** Arthur James Wells,2001

This book delves into Virology A Study Guide For Your Final Exam 1. Virology A Study Guide For Your Final Exam 1 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Virology A Study Guide For Your Final Exam 1, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Virology A Study Guide For Your Final Exam 1
 - Chapter 2: Essential Elements of Virology A Study Guide For Your Final Exam 1
 - Chapter 3: Virology A Study Guide For Your Final Exam 1 in Everyday Life
 - Chapter 4: Virology A Study Guide For Your Final Exam 1 in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Virology A Study Guide For Your Final Exam 1. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Virology A Study Guide For Your Final Exam 1.

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