

- 1.How were viruses first discovered and by which scientists?**
- 2.Describe experiments that were used to isolate viruses and determine their structure and function.**
- 3.Describe the structure of a typical virus. Include a picture.**
- 4.Define capsid, viral envelope, and phage and give an example of a virus that has each characteristic.**
- 5.Describe the general features of the viral reproductive cycle.**

6. Compare and contrast the lysogenic and the lytic cycle of phages.

7. What role do restriction enzymes play in the destruction of phages?

8. Describe the reproductive cycle of the AIDS virus. (HIV)

9. What types of cells does the AIDS virus infect in humans?

10. Is AIDS a retrovirus? If so what is its nucleic acid and what enzyme must it use to reproduce?

11. What is the difference b/w epidemics and pandemics?

12. Compare and contrast viroids and prions.

Including what diseases they cause.