Internet Assignment 20: Viral Life Cycles

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_

Directions: Read through the questions on this page so you know what to look for. Then, copy and paste the link into the web browser of your computer and watch the. Use the animation to answer the questions below.

<http://www.xvivo.net/zirus-antivirotics-condensed/>

1. What is a virus?
2. What does a virus do to our cells?
3. What’s another word for a viral particle?
4. List the 4 types of nucleic acid that can be found in a virus?
5. What part of the virus encloses the nucleic acid?
6. Describe the structure and genome of Influenza Type A
7. What are the 3 methods of exposure to Influenza Type A?
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Where does infection take place?
9. How does the virus “know” which cell to infect, and once it recognizes these target cells what is the mechanism by which it enters?
10. What is the role of the capture vesicle?
11. Review:
	1. What are microtubules made out of
	2. What are some other roles of microtubules
	3. What is kinesin
12. What is uncoating?
13. How do the viral proteins get into the host cells nucleus?
14. Once in the nucleus, briefly describe the process by which new viruses will be formed
15. Review: Which enzymes that we have learned about prieviously will be necessary for successful production of new viruses?
16. What is the best strategy for controlling certain viral diseases?
17. These are said to be ineffective against viruses that cause the common cold and HIV, why do you think that it?