**Chapter 16: Viruses and other nonliving pathogens OPEN NOTES QUIZ**

**Waggy ( points)**

**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Define virus:
2. Why aren’t viruses considered living?
3. What key characteristics of life are viruses missing? (1.5 pts)
4. List the parts that make up a virus.
5. Match the correct structure to its function for a virus. (2 pts)
   1. Hollow tube that acts like a hypodermic needle \_\_\_\_\_\_\_\_\_\_Head
   2. Nucleic acid covered by a protein covering \_\_\_\_\_\_\_\_\_\_Sheath
   3. This structure helps to hold the virus to the surface \_\_\_\_\_\_\_\_\_\_Envelope

of the host cell

* 1. Some viruses cover themselves with lipids from \_\_\_\_\_\_\_\_\_\_ Tail fibers

the host cell’s membrane

1. Viruses can be classified in four different ways. List them: (2 pts)
2. What does the bacteriophage attack?
3. What does the adenovirus attack?
4. What does the rhinovirus attack?
5. The process by which a virus reproduces is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Briefly describe how a virus replicates itself:
7. List the four steps, in order, of viral replication: (2 pts)
8. Define vector:
9. Vectors can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. ( 1pt)
10. Give at least two examples of living vectors. (1pt)
11. Give at least two examples of nonliving vectors. (1pt)
12. Name the viral diseases described below: (16 pts)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ virus starts in lungs and then moves to the skin where it causes a rash

VECTOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: a group of 5 different viruses that cause an infection of the liver that can be life threatening.

VECTOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_: caused by Human Immuno Virus (HIV) it attacks the immune system. People with this disease usually die from a simple infection like a cold, because their immune system has grown so weak.

VECTOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: This virus causes cervical cancer in women

VECTOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: fever, headache, coma, and paralysis are symptoms of this disease.

VECTOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: this is a highly contagious pneumonia like disease that it highly fatal

VECTOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: this disease is found mostly in SW United States and causes a highly fatal pneumonia.

VECTOR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: highly fatal hemorrhagic fever, internal bleeding and circulatory collapse

VECTOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What single human act is thought to be increasing the occurrence of some of these viral diseases?
2. What is the best way to control the spread of viruses OUTSIDE the body?
3. Why aren’t antibiotics effective against viruses?
4. How do antiviral drugs work?
5. How does Interferon work?
6. What does a Protease Inhibitor interfere with?
7. How are plants with a virus treated?
8. What does a viroid consist of?
9. What does a prion consist of?
10. List 4 diseases that are known to be caused by prions: (2 pts)
11. What is the real name for Mad Cow Disease?
12. How do you get Kuru?
13. What major brain health issue is being studied right now for the presence of prions?