**Biology 0861 Worksheet on Viruses – Chapter 19-2: p.478-483**

1. What is a virus?

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2. How do viruses reproduce?

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3. Identify this type of virus:

 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Complete the sentence: A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the virus’s protein coat.

5. True or false? Because viruses must bind precisely to proteins on the cell surface and then use a host's genetic system, most viruses are not specific to the cells they infect.  \_\_\_\_\_\_\_\_

6. In what type of infection (lytic or lysogenic) does the bacteriophage enters a cell, makes copies of itself, and causes the cell to burst? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. In what type of infection (lytic or lysogenic) does the bacteriophage enters a cell and replicate with bacterium for many generations? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. How is called the bacteriophage DNA inserted into a bacterial chromosome? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. How are retroviruses different from other viruses?

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10. Viruses are at the borderline of living and non living things.

 a) Give two characteristics of viruses that make them different from real living things.

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b) Give three characteristics of viruses that make them similar from real living things.

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_