

**CHAPTER 10  
WORKSHEET  
BIO 275**  
Instructor Sharron Jones

**True/False**

- \_\_\_\_\_ 1. Some of the complex viruses have both DNA and RNA in their genome.
- \_\_\_\_\_ 2. Following the release of viral particles from the cell, the cell usually, but not always, dies.
- \_\_\_\_\_ 3. The diseases of botulism and diphtheria are actually viral related since a temperate phage provides the bacterium with the ability to make a toxin.

**Multiple Choice**

- \_\_\_\_\_ 4. Viral groups that cause childhood infections include all of these except  
A. picornaviruses.                      D. reoviruses.  
B. herpesviruses.                        E. paramyxoviruses.  
C. rhabdoviruses.
- \_\_\_\_\_ 5. Members of the herpesviridae include all of these except  
A. varicella.                                C. cytomegaloviruses.  
B. zoster.                                    D. rubellaviruses.
- \_\_\_\_\_ 6. In the penetration step during replication of bacteriophages,  
A. tail fibers contract to push the internal tube through the wall.  
B. the entire phage unit penetrates through the cell wall.  
C. Lysozyme in the phage tail weakens the bacterial cell wall.  
D. cell wall receptor sites act to bind the tail core proteins, which osmotically open the wall.

**Matching Set #1**

- |  |                            |
|--|----------------------------|
| _____ 7. Small, enveloped, (+) sense RNA, multiples in host cytoplasm            | <b>A.</b> Picornaviridae   |
| _____ 8. Medium-sized, enveloped, (-) sense RNA; helical nucleocapsid            | <b>B.</b> Flaviviridae     |
| _____ 9. Small, naked, polyhedral, (+) sense RNA                                 | <b>C.</b> Retroviridae     |
| _____ 10. Medium-sized, enveloped, (+) sense RNA, vary from spherical to helical | <b>D.</b> Togaviridae      |
| _____ 11. Enveloped, polyhedral, (+) sense RNA, transmitted by ticks             | <b>E.</b> Paramyxoviridae  |
| _____ 12. Enveloped, filamentous, single (-) sense RNA                           | <b>F.</b> Orthomyxoviridae |
| _____ 13. Enveloped, two (+) sense RNA strands; reverse transcriptase            | <b>G.</b> Filoviridae      |
| _____ 14. Enveloped, (-) sense RNA; three-segment genome                         | <b>H.</b> Bunyaviridae     |
| _____ 15. Enveloped, (-) sense RNA, two-segment genome                           | <b>I.</b> Arenaviridae     |