




# Chapter 19 Review Sheet - Answer Key

## 19-1 Bacteria

## 19-2 Viruses

## 19-3 Diseases

|   |   |  |
|---|---|--|
| <p>List four human uses for bacteria.</p> <ol style="list-style-type: none"> <li>1) Production of food</li> <li>2) Digestion in humans</li> <li>3) Industry</li> <li>4) cleaning up oil spills</li> </ol>   | <p>A <u>virus</u> is made up of a core of DNA or RNA surrounded by a protein coat called a capsid.</p>                | <p>What is one way that bacteria cause disease?</p> <p>use cells for food or releasing toxins</p>  |
| <p>Draw the cell shape for the following:</p> <p>Cocci </p> <p>Bacilli </p> <p>Spirilla </p> | <p>Viruses that contain RNA as their genetic information are <u>retroviruses</u>.</p>                                 | <p>Circle the diseases caused by bacteria.</p> <p><u>Tooth decay</u> <u>Lyme disease</u></p> <p><u>Tuberculosis</u> <u>AIDS</u></p>                      |
| <p>Cells without a nucleus are <u>prokaryotes</u>.</p> <p>*You will have to label a picture of one of these on the test!</p>  | <p>Lytic infection ends with...</p> <p>cell bursts open releasing new viruses.</p>                                    | <p>Why will food stored in the refrigerator keep longer?</p> <p>colder temps slow bacteria growth</p>  |
| <p>Name three ways prokaryotes can be identified.</p> <ol style="list-style-type: none"> <li>1) Cell shape</li> <li>2) Cell walls</li> <li>3) Movement</li> </ol>   | <p><u>True</u> or False</p> <p>A virus is non-living.</p>   | <p>A <u>pathogen</u> is a disease causing organism.</p>  |
| <p><u>Archaea</u> can live in extremely harsh conditions after a volcanic eruption.</p>   | <p>Where are the instructions for making new copies of a virus found?</p> <p>DNA or RNA</p>                           | <p>When injected into the body, a vaccine will...</p> <p>cause the body to develop immunity to the virus.</p>  |
| <p>Why are bacterial decomposers helpful?</p> <p>they return important nutrients to soil.</p>   | <p>The function of a viral capsid is...</p> <p>enclose the DNA or RNA.</p>  | <p>Circle the diseases caused by viruses.</p> <p>tetanus <u>influenza</u></p> <p><u>AIDS</u> <u>chickenpox</u></p>                                       |
| <p>When treated with a Gram stain, you will see the following colors:</p> <p>Gram positive = <u>purple</u></p> <p>Gram negative = <u>pink/red</u></p>   | <p>Review lytic and lysogenic infections on page 481. You will have to read a similar chart and answer questions.</p> | <p>What do antibiotics do for people?</p> <p>treat diseases caused by bacteria.</p>  |
| <p>What do nitrogen-fixing bacteria do?</p> <p>fix nitrogen to a form <del>be</del> plants can use.</p>   | <p>What structure in a Bacteriophage takes over the host cell?</p> <p>DNA</p>   | <p>List two ways people can control bacterial growth on food.</p> <ol style="list-style-type: none"> <li>1) refrigeration</li> <li>2) cooking</li> </ol> |