

1. Which of the following microorganisms is most likely to be associated in dental caries?

- a. *Staphylococcus aureus*
- b. *Staphylococcus epidermidis*
- c. *Streptococcus mutans*
- d. *Helicobacter pylori*
- e. *Mycobacterium leprae*

2. Leukocidins are lytic agents that:

- a. use chitinase to kill fungi
- b. lyse red blood cells
- c. lyse bacterial cells
- d. lyse white blood cells
- e. destroy viruses

3. Neurotoxins are produced by which of the following pairs of microorganisms?
- a. *Corynebacterium diphtheriae* and *Clostridium botulinum*
 - b. *Clostridium tetani* and *Clostridium botulinum*
 - c. *Vibrio cholerae* and *Streptococcus pyogenes*
 - d. *Bacillus anthracis* and *Escherichia coli*
 - e. *Streptococcus pneumoniae* and *Salmonella typhimurium*

4. Which of the following statements is true about chickenpox?
- a. This is a sexually-transmitted disease.
 - b. The virus is thought to have originated in chickens and crossed species boundaries.
 - c. This bacterial disease stimulates a patient's endogenous pyrogens.
 - d. The viral DNA can remain in nerve cells for years and become activated to cause the disease known as shingles.
 - e. All of the above statements are true.