Chapter 5 practice questions.

1. You completed a spore stain on a milk sample that you took from your fridge. You notice green spots among a sea of pink bacterial cells. Knowing what you know about microbiology, how would you get rid of the contaminating bacteria in this milk sample?

a. Boil the milk for 5 min.

b. Freezing the milk.

c. Treating the milk using standard HTST treatment.

d. Autoclaving the milk sample.

2. The absolute destruction or removal of ALL microorganisms is referred to as:

a. Degerming

b. Antisepsis

c. Sanitization

d. Sterilization

3. Lysol is a compound that is commonly used to clean off contaminated surfaces in the household. The use of lysol to remove microorganisms from surfaces is referred to as:

a. Sterilization

b. Disinfection

c. Antisepsis

d. Degerming

e. Sanitization

4. Which of the following processes is sufficient to destroy the endospores of *Clostridium botulinum*?

a. Heating an object to 170°C in an oven for 2 hours

b. High salts

c. Gassing a plastic package with ethylene oxide for four hours

d. Heating milk to 140°C for 3 seconds

e. All of the above

f. a, b, c

g. a, c, d

5. True or False: Microwaves kill microorganisms indirectly through the generation of heat.

a. True

b. False

6. True or False: A treatment that is considered bacteriocidal kills bacteria, whereas a treatment that is germicidal does not.

a. True

b. False

7. The filtration method for sterilization is used for which compound?

a. Viruses

b. Sugars

c. Antibiotics

d. Enzymes

e. All of the above

f. a, c , d

g. b, c, d

8. You are studying the effectiveness of bleach, Lysol and other household cleaners on their ability to disinfect surfaces. What method could you use to show how each of these cleaners inhibit the growth of microorganisms?

a. Streak plate method

b. Disk diffusion method

c. Dilution method

d. None of the above.

9. You are trying to isolate a pure colony of bacteria on an agar plate from an original plate grown a few days before. What would you use to sterilize the loop you are going to use to transfer the bacteria from one plate to another?

a. A flame

b. Gas fumes

c. water

d. None of the above

10. Ethylene oxide gases:

a. Are germicidal, kill all microbes including endospores

b. Requires 4-18 hours of exposure

c. Are highly penetrating.

d. All of the above.