SELF-TESTS

In the matching section, there is only one answer to each question; however, the lettered options (a, b, c, etc.) may be used more than once or not at all.

1. 171	accining		٠.
·	1. A suffix meaning "to kill."	·a.	Disinfection
	2. Destroying or removing <i>all</i> forms of microbial life.	b.	Sterilization
	3. The absence of pathogens on an object or area.	c.	Antisepsis
	4. The reduction of microbial populations to safe public	d.	Asepsis
	health levels.	e.	Sanitization
—	5. The chemical disinfection of living tissue, such as skin or a mucous membrane.	f.	Degerming
	6. The removal of transient microbes from skin by mechanical cleansing or by an antiseptic.	g.	-cide
		h.	-stat
	7. Heat sufficient only to kill endospores of the botulism bacterium.	i.	Commercial sterilization
	·		
11. N	fatching		
	1. The lowest temperature required to kill a liquid culture of a certain species of bacteria in 10 minutes.	a.	Thermal death time
		b.	Decimal reduction time
· · · ·	2. The time in minutes required to kill 90% of a bacterial population.	Ċ.	Thermal death point
	3. Mild heating to destroy particular spoilage organisms or disease organisms in milk or similar products.	d.	Phenol coefficient
		e.	Pasteurization
	4. A test for the effectiveness of a chemical disinfectant.	f.	Desiccation
	5. The absence of water, resulting in a condition of dryness.	g.	Incineration

III. Matching	
1. Ethylene oxide.	a. Bisphenol
2. Sodium hypochlorite.	b. Halogen
3. Copper sulfate.	c. Alcohol
4. Silver nitrate.	d. Heavy metal
5. Benzalkonium chloride.	e. Quaternary ammonium com- pound
6. Acid-anionic detergents.7. Sorbic acid.	f. Surface-active agents
8. Benzoyl peroxide.	g. Organic acid
9. Hexachlorophene.	h. Aldehydes
10. Isopropanol.	i. Gaseous chemosterilizer
10. Isopiopailoi.	j. Oxidizing agent
IV. Matching	
1. An effective liquid sporicide.	a. Peracetic acid
2. A bacteriocin classified as an antibiotic.	b. Chlorhexidine
3. Pimaricin.	c. Triclosan
4. A biguanide.	d. Natamycin
5. A bisphenol found in many household products.	e. Nisin
6. An antibiotic antifungal.	
V. Matching	
1. Added to chlorine to form chloramines.	a. Iodophore
2. An antibacterial effect of ultraviolet radiation on DNA.	b. Formalin
3. Formaldehyde in an aqueous solution.	c. Thymine dimers
4. An example would be iodine in an aqueous-alcohol solution.	d. Ammonia
5. For example, povidone iodine solution.	e. Tincture

VI. Matching

- 1. Chlorine in tablet form issued as a water purifier by the U.S. military.
- Name of a test that determines if milk has been properly pasteurized.
- 3. Used as an antiseptic in certain mouthwashes.
- 4. Used in many water treatment plants as a disinfectant; produced by electrical discharges at the site.
- ___ 5. Antifungal organic compound used in food.

- a. Sodium dichloroisocyanurate
- b. Phosphatase
- c. Zinc chloride
- d. Sodium benzoate
- e. Ozone

Fill in the Blanks

1.	Ultraviolet light is an example of radiation.	
2.	Sunlight owes its biocidal activity mainly to the formation of	oxygen.
3.	A good example of ionizing radiation is	
4.	Ethanol is usually used in a concentration of about	
5.	A less irritating form of formaldehyde is	
6.	A compound that would only inhibit the growth of a fungus would be a fungi	
	· · · · · · · · · · · · · · · · · · ·	
7.	Steam allows temperatures above boiling to be reached.	
8.	Steam under pressure is obtained in retorts, pressure cookers, and	·····
9.	Plasma gas sterilization makes use of vapors of	· ·.
10.	Generally speaking, the group of organisms that is more resistant to osmotic pressure that	ın bacteria i
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Critical Thinking

- 1. What physical method of control would be most effective in each of the following situations?
 - a. To eliminate endospore-forming pathogens.
 - b. To sterilize milk for storage at room temperature.
 - c. To sterilize vaccines.
 - d. To sterilize microbiological media.

۷.	a.	A puncture wound acquired while gardening.
	b.	For presurgical scrubbing.
	c.	To sterilize packaged bandages.
	d.	To prevent the growth of molds in liquid cosmetics.
3.	Co	mpare and contrast sterilization and sanitation.
4.		scuss the advantages and disadvantages associated with each of the following physical methods control.
	a.	Osmotic pressure
	b.	Desiccation
	c.	Refrigeration
	d.	Filtration
5.	Dis	scuss the advantages and disadvantages of UV light as a method to control microbial growth.