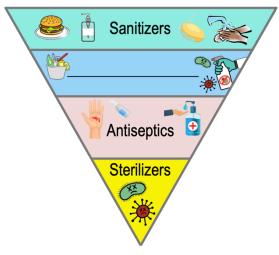
CONCEPT: CHEMICAL METHODS TO CONTROL MICROBIAL GROWTH

- •In addition to physical methods, there are also _____ methods to control microbial growth.
- •There are several types of *chemical agents* used for controlling microbial growth including:
 - 1 Sanitizer: chemical used to sanitize by killing mainly bacteria to meet public _____ standards by cleaning.
 - 2 Disinfectant (or Microbicide): chemical used to disinfect inanimate (non-living) objects.
 - 3 Antiseptic: type of disinfectant that can be safely used on ______ tissue.
 - **4**) Sterilizer: chemical that sterilizes by destroying ALL microbes (except prions), including ______.



Types of Disinfectants

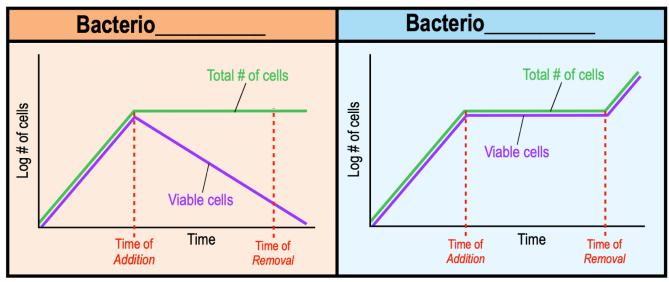
- Recall: Disinfectant (Microbicide or Germicide): chemical used to disinfect inanimate (_____-living) objects.
 - □ Can be grouped based on if they "kill" or "inhibit" & based on the type of microbes they are most effective against.

 - □ Suffix "-_____" = to permanently *kill*. □ Suffix "-_____" = to reversibly *inhibit*.

 - □ Bacterio_____ *kill* bacteria. □ Bacterio_____ *inhibit* bacterial growth.
 - □ Fungi cides kill fungi.

□ **Fungi***static inhibit* fungal growth.

EXAMPLE: Effects of bacteriostatic & bactericidal treatments on cell growth.



CONCEPT: CHEMICAL METHODS TO CONTROL MICROBIAL GROWTH

PRACTICE:	inhibit the growth of bacteria &	kill bacteri
PRACTICE:	innibit the growth of bacteria &	KIII dacte

- a) Fungistatics; Fungicides.
- b) Bacteriocides; Bacteriostatics.
- c) Bacteriostatics, Fingicides.
- d) Bacteriostatics, Bacteriocides.
- e) Bacteriocides; Fungistatics.

Selecting the Right Chemical Agent

•8	Selecting	a s	pecific	chem	nical	for o	contro	lling	grov	vth is	com	plex	since	there	are	many	thing	s to	consid	der.

□ The chemical should _____ target microbes *without* causing unintended damage.

•Here are a few other considerations when selecting chemical agents for microbial growth control:

Considerations for Selecting Chemical Agents						
1 Activity around matter						
2 Chemical						
3 capabilities						
4 of the Chemical						
5 Environmental						

PRACTICE: Which of the following is(are) considered when selecting a germicidal chemical?

- a) Toxicity.
- b) Cost.
- c) Compatibility with the material being treated.
- d) Environmental impact.
- e) All the choices are correct.