CONCEPT: REVIEW OF PHYSICAL METHODS TO CONTROL MICROBIAL GROWTH

●Now let's review the different types of physical methods for controlling microbial growth.

Physical Methods to Control Microbial Growth		
Control Method		**Description**
Dry Heat		Heat that has NO moisture or _____ content.
Moist Heat		Heat that has moisture or liquid content.
Low Temperatures		Low temperatures _____ the growth of microbes & preserves foods.
Desiccation		Process of _____ out or removing moisture from cells, killing microbes.
Lyophilization		The process of _____-drying, widely used to preserve food.
Filtration		Process of using filters with small pores to filter out microbes for liquid or _____.
Irradiation		Process of exposing an object to _____ to kill microbes.
High Pressure Processing		Process of using high _____ to damage and kill microbes.

PRACTICE: Which of the following microbial control methods does not actually kill microbes or inhibit their growth but instead removes them physically from samples?

a) Filtration.
b) Desiccation.
c) Lyophilization.
d) Non-Ionizing Radiation.

PRACTICE: Which method of physical microbial growth control requires extremely high temperatures and long periods of time to kill microbes?

a) Moist heat control techniques.
b) Pasteurization.
c) Dry heat control techniques.
d) Lyophilization.