

MICROBIOLOGY LECTURE EXAM 2 STUDY GUIDE

Microbial Growth

- Growth of bacteria refers to the increase in numbers of bacteria and DOES NOT refer to an increase in the size of the actual bacteria itself.
- ALL bacteria divide by a process called *binary fission*
 - Binary fission: when one cell divides into two cells
- Generation time: the time required to divide
 - This time can vary
 - The average bacteria can divide every 30 to 60 minutes
 - Human pathogens can divide about every 20 to 30 minutes
 - This gives the human pathogens tremendous reproductive potential!
 - Time to double in numbers
 - This explains why you can go to bed at night feeling relatively normal and good, but then when you wake up in the morning, you have a strep throat that hurts very badly.
 - Ex.: You can go from 1 cell to 1,000,000 in 10 hours, etc.
 - Fortunately, the period of rapid cell multiplication only lasts for a short period of time.
 - Rapid cell multiplication: when the cells divide so rapidly.
- Growth curve
 - Whenever bacteria are introduced into a new environment, the bacteria undergo or follow a growth curve.
 - It does not matter what the environment is.
 - Ex.: the environment could be a glass of milk, or an agar plate, etc.

Microbiology Exam Study Guide

Bai-song Zhong



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