

Microbiology Exam 2 chapters 6, 7, 8, and 9

2023

Microbial Growth - Answer-The increase in numbers of microbes resulting in a discrete colony

Heterotrophy - Answer-Eat food. They acquire carbon from organic molecules

Autotrophy - Answer-Make food. They make carbon from inorganic CO₂

Obligate anaerobe - Answer-Oxygen is deadly to them. They lack the enzyme to neutralize oxygen.

Obligate aerobe - Answer-They require oxygen for survival

Facultative anaerobe - Answer-Can grow with or without oxygen

Toxic oxygen - Answer-Singlet oxygen or H₂O₂ forms during aerobic respiration and can damage proteins or DNA

How microbes deal with toxic oxygen - Answer-They make enzymes like catalase to neutralize the toxic oxygen

Growth factors - Answer-Substances, like vitamins, that can't be synthesized by the organism but are required for growth

Cells in extreme heat - Answer-Extreme heat denatures the proteins and membranes causing them to become too fluid and leak

Psychrophile - Answer-Bacteria that grow in very cold temperatures. Don't cause disease by can cause food spoilage

Mesophile - Answer-Bacteria that grow in moderate temperatures like the human body that cause disease

Thermophile - Answer-Bacteria that grow in high temperatures like hot springs and compost piles

Hyperthermophile - Answer-Bacteria that grow in extremely hot environments like boiling volcanic geysers

Acidophile - Answer-Bacteria and fungi that grow in acid environments that can cause disease

Alkaliphile - Answer-Bacteria that grow in alkaline environments like soil or water

Microbiology Chapter 4 5 6 Exam

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