

# Microbiology Study Guide

## Microbial growth

### ***PHYSICAL REQUIREMENTS FOR GROWTH***

- Growth of population: increase in the number of cells
- Requirements are both *physical and chemical*

#### PHYSICAL REQUIREMENTS:

- \*psychrophiles: cold loving microbes
- \*mesophiles: moderate temperature
- \*thermophiles: heat loving
- Minimum growth temperature: the lowest temperature that a species will grow
  - Optimum: temperature it grows best
  - Maximum: highest temperature tolerated for growth
- Most bacteria grow at a pH value between 6.5-7.5
- Most microbes undergo plasmolysis (shrinking) in hypertonic solutions; halophiles (microorganisms that require salt to survive) can tolerate higher salt concentrations

#### CHEMICAL REQUIREMENTS:

- Carbon—all organisms require a carbon source
- \*chemoheterotrophs: use an organic molecule (pure carbon)
- \*autotrophs: use carbon dioxide
- Nitrogen—needed for protein and nucleic acid synthesis. Obtained from decomposition of proteins, from  $\text{NH}_4$  or  $\text{NO}_3$ .
- Oxygen—obligate aerobes (require oxygen); facultative anaerobes (will use oxygen if it is present but do not require it); anaerobes (do not use oxygen) – for growth
- Other: sulfur, phosphorus, trace elements, organic growth factors

#### BIOFILMS

- Microbes adhere to surfaces and accumulate as biofilms on solid surfaces in contact with water
- Most bacteria live in biofilms
- Microbes in biofilms are more resistant to antibiotics than free-swimming microbes

# Microbiology Study Guide Exam

**F Rizvi**



## **Microbiology Study Guide Exam:**

## Unveiling the Magic of Words: A Review of "**Microbiology Study Guide Exam**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Microbiology Study Guide Exam**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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