

Student Name: XXXXXXXXXX

BIOS 242 Week 5: Exam 2 Remediation

Review Chapter: _ CO: 5

To analyze the physical and biochemical requirements of a given microorganism, you would consider factors such as:

Temperature: Optimal growth temperatures vary among microorganisms, with some thriving in extreme heat or cold.

Oxygen: Microorganisms may require oxygen (aerobic), be poisoned by it (anaerobic), or be flexible (facultative anaerobes).

pH: The acidity or alkalinity of the environment can significantly affect microbial growth.

Nutritional needs: Microorganisms require various nutrients, including carbon, nitrogen, and trace elements for growth.

Key Terms & Definitions:

Aerobic: Requiring oxygen for growth.

Anaerobic: Growing in the absence of oxygen.

Facultative Anaerobes: Can grow with or without oxygen. **Psychrophiles:** Cold-loving microbes.

Thermophiles: Heat-loving microbes.