

Chapter 1 - Microbiology

Wednesday, January 12, 2022

11:35 AM

Microbiology = the study of microorganisms (microbes)

- **Microbes** = organisms that cannot be readily seen without a microscope
- **Medical microbiology** = the medical implications of microbes (how they cause diseases)
- Viral pathogens -> not a microbe because it is not actually a living thing

Micrometer, micron, μm

- 0.000001 meter = 1 micrometer

How many human cells are in the body

- More than 30 trillion
- Emphasis on *human* cells because that excludes the other microbes and microorganisms

Organizing microbes

- Classification
 - **Carl Linnaeus** is founder of modern taxonomy
 - *Systema Naturae*
 - 1) Animals
 - 2) Plants
 - 3) Minerals
 - **Taxonomy** = the classification, description, identification, and naming of living organisms
- Defining properties
 - **Ernst Haeckel** make the first phylogeny (tree) to include a kingdom for protista and
 - **Protista** = single cell organisms
 - **Monera** = bacteria
 - Before this, we didn't have a way of classifying things to this level (so tiny)
 - Greatest success was that it showed the relatedness of organisms
 - **Phylogeny** = depiction of the evolutionary history of a group of organisms
- A **taxon** is based on increasing specificity of the characteristics of a group of organisms



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Table of Contents Microbiology Study Guide For Net Exam

1. Understanding the eBook Microbiology Study Guide For Net Exam
 - The Rise of Digital Reading Microbiology Study Guide For Net Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Study Guide For Net Exam
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbiology Study Guide For Net Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Study Guide For Net Exam
 - Personalized Recommendations

- Microbiology Study Guide For Net Exam User Reviews and Ratings
- Microbiology Study Guide For Net Exam and Bestseller Lists
- 5. Accessing Microbiology Study Guide For Net Exam Free and Paid eBooks
 - Microbiology Study Guide For Net Exam Public Domain eBooks
 - Microbiology Study Guide For Net Exam eBook Subscription Services
 - Microbiology Study Guide For Net Exam Budget-Friendly Options
- 6. Navigating Microbiology Study Guide For Net Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbiology Study Guide For Net Exam Compatibility with Devices
 - Microbiology Study Guide For Net Exam Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbiology Study Guide For Net Exam
 - Highlighting and Note-Taking Microbiology Study Guide For Net Exam
 - Interactive Elements Microbiology Study Guide For Net Exam
- 8. Staying Engaged with Microbiology Study Guide For Net Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Study Guide For Net Exam
- 9. Balancing eBooks and Physical Books Microbiology Study Guide For Net Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Study Guide For Net Exam
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microbiology Study Guide For Net Exam
 - Setting Reading Goals Microbiology Study Guide For Net Exam
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbiology Study Guide For Net Exam
 - Fact-Checking eBook Content of Microbiology Study Guide For Net Exam

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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at 24.1 °C in a calorimeter the temperature increases to 25.2 °C as AgCl s forms assuming the specific heat of the solution and
products is 4.20 J/g °C calculate the approximate amount of heat in joules produced

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°C and the change in temperature is 50 °C - 20 °C = 30 °C plugging these values into the equation we get $q = 75.0 \text{ g} \times 1 \text{ cal/g} \times 30 \text{ }^{\circ}\text{C} = 2250$
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