

MCB 201: GENERAL MICROBIOLOGY (DR G. C. IHEANACHO SECTION)

Shapes and arrangement of bacteria. Identification of bacteria –Overview of cultural characteristics, Gram staining, biochemical tests. Nutritional categories and biochemical activities of microorganism. Microbial Nutrition, cultivation and growth;
Batch and continuous growth cultures; phases of growth in batch culture. Environmental factors influencing growth: temperature, oxygen, pH, moisture, salinity, etc.
Antimicrobial agents: antibiotics, static and cidal agents, sterilization, disinfection, sanitization, antiseptic. Methods of controlling microorganisms; physical, chemical and radiation techniques, Major groups of disinfectants:

SHAPES AND ARRANGEMENTS OF BACTERIA

Bacteria has two common shapes: a. cocci (plural coccus) b. Rods (bacillus)

- a. Cocci are roughly spherical in shape. They can exist individually but may also come in other arrangements like:
 - i. Diplococcic – cocci divides and remains in pairs
 - ii. They may also exist in long chains of cocci which divide and remain attached to each other, eg. *Streptococcus*, *Enterococcus*
 - iii. They can exist in clusters of cocci, eg. *Micrococcus*
- b. Rods. This is often referred to as bacillus (plural bacilli)
- c. Bacteria can also be unusually shaped. The *Actinomyces* form longhyphae that may branch to produce a network called mycelium
- d. Bacteria may also form rods twisted into spirals or helices which are called spirilla if rigid or spirochetes, if flexible.
- e. Some bacteria are pleomorphic – showing variable shapes.
- f. Some bacteria could also be flat or square shaped

IDENTIFICATION OF BACTERIA

Identification of bacteria (preliminary or conclusive) can be based on a number of factors namely:

- a. Microscopic examination of specimen
- b. Growth study and biochemical characteristics of isolates
- c. Immunologic tests that detects antibodies and antigens
- d. Bacteriophage typing
- e. Molecular methods

NB. A **bacteriophage** is a virus that uses a bacteria as its host. **Bacteriophage typing** is a technique which identifies bacteria based on the type of phage they are susceptible to.

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G Orfield



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Table of Contents Mcb 201 Pdf

1. Understanding the eBook Mcb 201 Pdf
 - The Rise of Digital Reading Mcb 201 Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying Mcb 201 Pdf
 - 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 Mcb 201 Pdf
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mcb 201 Pdf
 - Personalized Recommendations
 - Mcb 201 Pdf User Reviews and Ratings
 - Mcb 201 Pdf and Bestseller Lists
5. Accessing Mcb 201 Pdf Free and Paid eBooks
 - Mcb 201 Pdf Public Domain eBooks
 - Mcb 201 Pdf eBook Subscription Services
 - Mcb 201 Pdf Budget-Friendly Options

6. Navigating Mcb 201 Pdf eBook Formats
 - ePub, PDF, MOBI, and More
 - Mcb 201 Pdf Compatibility with Devices
 - Mcb 201 Pdf Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcb 201 Pdf
 - Highlighting and Note-Taking Mcb 201 Pdf
 - Interactive Elements Mcb 201 Pdf
8. Staying Engaged with Mcb 201 Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcb 201 Pdf
9. Balancing eBooks and Physical Books Mcb 201 Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcb 201 Pdf
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mcb 201 Pdf
 - Setting Reading Goals Mcb 201 Pdf
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mcb 201 Pdf
 - Fact-Checking eBook Content of Mcb 201 Pdf
 - 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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