

Microbiology Final 2025

Chapter 1 Scope of Microbiology

1. One type of microscope that provides a three-dimensional image of a specimen is: scanning electron microscope
2. One type of microscope capable of observing living microorganisms is the: phase-contrast microscope
3. Which scientist is most responsible for ending the controversy about spontaneous generation: John Needham
4. Fossils of prokaryotes go back ____ billion years: 3.5 to 4.0
5. Which of the following is not microorganism: insect
6. The correct order of taxonomic category is: domain, kingdom, phylum, class, order, family, genus, species
7. Complex communities of microorganisms on surfaces are called: biofilms
8. A relationship between organisms in which the waste product of one provides nutrients for another is called: commensalism
9. Which of the following sites of the human blood does not have a normal flora: blood
10. Which of the following industries use(s) microorganisms: all the above (chemical, cheese, wine)
11. All bacteria are ____ cells: prokaryotes
12. Cells that contain a nucleus are ____ cells: eukaryotes
13. The taxonomic resource for bacteria is: Berger's manual
14. The proteins implicated in spongiform encephalopathy are: prions
15. The cleanup of different industrial waste is referred to as: bioremediation
16. Name and briefly describe the different types of microscopes:
 - **Bright-field microscopes** are most commonly used to observe sectioned and stained tissues, organs, and microorganisms.
 - **Dark-field microscopes** are used for unfixed, unstained specimens, such as living organisms.
 - **Phase-contrast microscopes** are used for the study of living plant and animal cells, microorganisms, and thin tissue slices; they are ideal for cytoplasmic streaming studies.
 - **Fluorescence microscopes** are used in conjunction with fluorescent stains/dyes.
 - **Electron microscopes** use a beam of electrons rather than light as
17. Describe Koch's postulates:
 - Microbe must be present in every animal with the disease
 - Microbe can be isolated and grown in pure culture
 - Cultured microorganism must cause the same disease in an inoculated (previously healthy) animal
 - Same microorganism must be isolated from the diseased animal
18. Compare and contrast prokaryotic and eukaryotic cells:
 - Prokaryotic cells **do not** have a nucleus or membrane-bound cell organelles
 - Eukaryotic cells **have** a nucleus and membrane-bound cell organelles

Microbiology Final Exam Study Guide

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The National Guide to Educational Credit for Training Programs American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies *REA's Authoritative Guide to Graduate Schools* Research and Education Association,Rea,Staff of Research Education Association,1998-01-01 REAs reference book profiles top graduate schools in over sixty fields of study including engineering biology psychology and chemistry The profiles have clear easy to read comparison charts that give details to help you select the best graduate school for you Contains information on enrollment admissions requirements financial aid tuition and much more This book is a helpful guide to students who are considering graduate school Clinical Medicine; Examination Review George Horemis,1972

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Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences ,1990 **EC Study Guide to Environment-related Courses** Institute for European Environmental Policy,Commission of the European Communities. Directorate-General Environment, Nuclear Safety and Civil Protection,1993 **Medical-surgical Nursing Examination Review** George Horemis,Clemencia Matamors,1973 Catalog of Nonresident Training Courses United States. Naval Education and Training Command,1996 **Guide to American Graduate Schools** ,1982

Self-assessment of Current Knowledge in Rheumatology Robert E. Pieroni,Gene V. Ball,Joe G. Hardin,1972

Certification and Accreditation Programs Directory Michael A. Paré,1996 Providing detailed profiles on certification and accreditation programmes in the US this book includes information on certification and accreditation programmes that

denote skill level professionalism accomplishment and excellence **AB Bookman's Yearbook** ,1971 *Medical Examination Review Book: Oncology* ,1960 **Addison-Wesley's Nursing Examination Review** Sally L. Lagerquist,1987
 Otolaryngology Stanley N. Farb,1983 **Echocardiography Case Studies** Jack J. Kleid,Nelson B. Schiller,1974
 Cumulated Index to the Books ,1999 **Digestive System Basic Sciences** Myron E. Tracht,1973 **Microbiology**
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