

## Microbiology 205 Exam 1 study guide

### Chapters 1: History of Microbiology

1. Learn the main contributions (and contributors) to the field of microbiology, immunology (vaccine), important infectious diseases in history, and chemotherapy by several scientists covered in class. What type of nomenclature is utilized to write and discuss bacteria?
2. What are the types of microorganisms are studied in microbiology?
3. What are the contributions of R. Hooke and van Leeuwenhoek to the field of microbiology?
4. What is abiogenesis (spontaneous generation)?
5. What experiments/scientists disproved spontaneous generation?
6. What is the Germ Theory of Disease? What were its benefits/drawbacks?
7. What are Koch's postulates?
8. What are other contributions of Pasteur, Jenner, Lady Montagu to the field of microbiology?
9. Why are bacteria or the study of microbes important? – just something to ponder – there are many reasons.
10. What are the six main types of microorganisms?
11. What are the three domains of microorganisms? How do they differ? How are they the same?
12. When is nomenclature helpful in classifying microorganism? How is the genus of bacteria written? Species? What is wrong with the following? *S. Aureus*

### Chapter 3. Methods for studying microbiology

1. You should know the basic parts of the light microscope. You should be able to understand the metric units (micro and millimeters) used in microbiology. Be able to convert from millimeters to micrometers – or any other metric unit – this is simple math. (not covered in class but you will be asked)
2. Know the limits of resolution of the light microscope. What is magnification, resolution? What are the properties of light?
3. Know the different kinds of microscopy that were discussed in class and know what each form brings to the table – ie – what would you use each technique for? What are the major differences between these techniques?
4. Why do we use stains in light microscopy? What problem are we trying to overcome in using stains? What is a positive stain? Negative?
5. You need to understand what types of media are used and why we use one media source (eg agar versus broth, solid versus liquid). You also need to understand selective and differential media. Focus on the examples covered in class. Tables 3.3 and 3.4 are helpful! What is meant by a complex or enriched agar? What is meant by a synthetic agar? Non-synthetic or complex? Can media be both selective and differential? Why or Why not?
6. Why is agar used in culture media?
7. You must know the difference between simple and differential staining.
8. Be able to describe the Gram's staining and the acid fast staining procedures.
9. What groups of organisms are recognized by the above staining procedures?

### Chapter 4. Prokaryotic Profiles

1. You should be able to compare and understand the basic differences between prokaryotic and eukaryotic cells (in combination with Chapter 5). This includes the internal and external structures of both types of microorganisms.
2. You should be familiar with typical size and shape of bacteria. Describe the basic cell arrangements among bacteria

# Microbiology 205 Study Guide

**Clifford Lane**



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