**Microbiology Test Outline**

*Reading:* *Viruses - Ch.17 pp.355-360, Ch. 45-2 pp. 972-976*

*Microscopes – Appendix C*

 *Bacteria – Sections 17.2 & 17.3*

*Concepts to study:*

Viruses:

\_\_\_\_\_ 1. Describe and be able to label the parts of a virus (bacteriophage).

\_\_\_\_\_ 2. Know the function of the parts of a virus.

\_\_\_\_\_ 3. Recognize diagrams & describe the sequence of events for the lytic cycle.

\_\_\_\_\_ 4. Recognize diagrams & describe the sequence of events for the lysogenic cycle.

\_\_\_\_\_ 5. Explain how a retrovirus different from an average viral particle.

\_\_\_\_\_ 6. Know the three theories of viral origin.

\_\_\_\_\_ 7. Give arguments for viruses being living beings versus non-living particles.

\_\_\_\_\_ 8. Give ways to prevent viral infection.

Microscopes:

\_\_\_\_\_ 1. Be able to label a diagram of a microscope & explain the functions of its parts.

\_\_\_\_\_ 2. Explain the difference between a simple, compound, & electron microscope.

\_\_\_\_\_ 3. Be able to calculate magnification.



Bacteria:

\_\_\_\_\_ 1. Describe similarities & differences between Eubacteria & Archaebacteria

\_\_\_\_\_ 2. Be able to label a diagram of a basic bacterium.

\_\_\_\_\_ 3. Know how to classify bacteria by shape (cocci, bacilli, spirilli) & arrangement (solitary, diplo, strepto, staphlo).

\_\_\_\_\_ 4. Describe the difference between Gram + & – bacteria based on cell wall structure & staining

\_\_\_\_\_ 5. Be able to explain binary fission and conjugation.

\_\_\_\_\_ 7. Know positive uses/roles of bacteria.

\_\_\_\_\_ 8. Describe how you can prevent bacterial infection.

*You should also:*

* read the assigned reading
* go through your notes
* know your vocabulary (on the course outline & new

words in your notes)

* review your labs & worksheets
* ask questions