**Microbiology – Cells - Test Outline**

*Reading:* Ch. 1 pp. 7-10 Ch. 2 pp. 27-31

Ch. 5 pp. 86-98 Ch. 6 pp. 112-135

*Concepts to study:*

**Scientific Method**

\_\_\_\_\_1. Be able to write a hypothesis in “if…then” format.

\_\_\_\_\_2. Recognize the independent variable, dependent variable, control group, experimental group, & constants.

\_\_\_\_\_3. Know the steps to the scientific method.

**Cells**

\_\_\_\_\_ 1. Know the parts to the Cell Theory.

\_\_\_\_\_ 2. Know who was involved in developing the Cell Theory and what their contributions were.

\_\_\_\_\_ 3. Know the characteristics of life.

\_\_\_\_\_ 4. Recognize, give examples, and compare/contract prokaryotic versus eukaryotic cells.

\_\_\_\_\_ 5. Be able to explain and give examples to support your explanation of cell specialization.

\_\_\_\_\_ 6. Distinguish between asexual and sexual reproduction.

\_\_\_\_\_ 7. Recognize and know the functions of cell organelles.

**Photosynthesis & Cellular Respiration**

\_\_\_\_\_ 1. Write the chemical equation for photosynthesis and cellular respiration.

\_\_\_\_\_ 2. List the products & reactants of photosynthesis and cellular respiration.

\_\_\_\_\_ 3. Where does the light reaction & dark reactions occur in the cell? Is this part of photosynthesis or cellular respiration?

\_\_\_\_\_ 4. Where does glycolysis, Kreb’s cycle, & electron transport occur in the cell? Is this part of photosynthesis or cellular respiration?

\_\_\_\_\_ 5. What is fermentation? When does it occur? What are the products?

*You should also:*

* read the assigned reading
* study your notes, handouts, and assignments
* be able to label any diagrams from this unit
* know your vocabulary (on the unit outline & new words in your notes)
* ask questions!!!

