Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

2nd 9 weeks exam review 2017 – Biology EHS

1. When comparing a prokaryote and Eukaryote, what are some main differences between the two? Explain.
2. Draw and label the parts of a prokaryotic cell. What makes the Prokaryote different from a Eukaryote?
3. What are some similarities and differences between Cyanobacteria and Euglena? Make a T chart to compare.
4. Write out the equation for both Photosynthesis and cellular respiration. What product is made by both Animals and Plants?
5. What is the function of the Vacuole? How would a contractile vacuole work differently from a normal vacuole? Explain.
6. Draw and explain the process of diffusion. What is moving and why?
7. Write and explain the steps to Cellular respiration. What is being produced in each step? (Include presence and absence of oxygen)
8. What is the function of the mitochondria? What is being made there, and how is it being made?
9. What is the function of ribosomes?
10. Draw and explain the process of Active transport. What is required for this process to occur and why?
11. Write the steps of interphase, and explain what is happening in each step.
12. Draw, label, and name the phases of mitosis.
13. There is a checkpoint at the G2 phase of the cell cycle, that repairs damaged DNA. Why does this happen?
14. What step occurs before the G2 Stage? What is happening during that stage?
15. Draw, label, and explain what is happening During Anaphase.