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Date _____

AP: CHAPTER 7

THE CELL

1. The tool that lead to the understanding that cells are the basic unit of life was the...

2. The smallest structures visible with the light microscope are the

3. What is the advantage of the electron microscope?

4. How do biologists isolate cell components?

5. What are four things all cells have in common?

a. _____

b. _____

c. _____

d. _____

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6. How do prokaryotic and eukaryotic cells differ?

7. What is a limiting factor to cell size?

8. How do ribosomes differ in prokaryotic and eukaryotic cells?

9. Why is that difference important to us?

10. What is the adaptive value of the endomembrane system? _____

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11. For each of the cellular structures, indicate a few significant aspects. Include major functions and structures.

Nuclear membrane
Nuclear pores
Nuclear lamina
Chromatin
Nucleolus
Ribosome
Smooth ER
Rough ER
Golgi apparatus
Lysosome
Vacuole
Mitochondria
Chloroplast

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Peroxisome
Cytoskeleton
Microtubule
Microfilament
Intermediate filament
Extracellular matrix
Plasmodesmata
Tight junction
Desmosomes
Gap junctions

12. Trace the path of production of a protein-based secretion from a secretory cell. (List the organelles involved)
