

Name: _____

Cell Notes Questions
(Write on your own sheet of paper)

1. What are the 8 characteristics of living things? According to the 8 characteristics explain why the following are living or not: Tree, Bee, Car, Robot.
2. Cell ---> Tissue---> _____ ----> _____-----> Organisms
3. Who named cells, and what did he use to discover them? Who was the first to describe living cells? Who came to the conclusion that all plants are made of cells? Who came to the conclusion that all animals are made of cells? Who combined all of these discoveries into the cell theory ?
4. What is the cell theory? Explain what each of the three parts means
5. What are organelles? Explain in both your own words as well as the textbook definition
6. Do prokaryotic, Eukaryotic, or both cell types have organelles? Explain why
7. List the characteristics of both Eukaryotic and Prokaryotic cells. (uni/multicellular, what are examples of organisms, what organelles or cell parts do they have, size of cells, how do the cells divide?)
8. What is the cytoskeleton and where is it found? What is the cytoskeleton composed of?
9. What is the cytoplasm? What is its function in cells?
10. What is the nucleus? What is its function? Where is it found? What is the nucleolus? Where is it found? How does its function differ from the nucleus?
11. What is the endoplasmic Reticulum? What are the two types? What is the function of each type? Why is the presence of ribosomes important on Rough E.R.?
12. What is the golgi apparatus? What is its function? What is a good analogy for its function in cells?
13. What are vesicles? What are their functions in cells?
14. What are mitochondria and what are their function in cells? Which cell types are they found in? What important process occurs here? What cells in a human would have the most mitochondria in them?
15. What are chloroplast and what are their function in cells? Which cell types are they found in? What important process occurs here?
16. What are vacuoles? How do they differ in plant and animal cells? What is their function in each cell type?
17. What are lysosomes? Why are they important to cells and humans?
18. What are cell walls? What cells do you find cell walls?
19. Using a Venn Diagram compare and contrast Plant and animal cells
20. Using a Venn Diagram compare and contrast eukaryotic and prokaryotic cells