**BIOLOGY CHAPTER 7 - TEST REVIEW GUIDE**

1. State the differences between the following microscopes:
2. simple light microscope
3. compound light microscope
4. electron microscope
5. Review all microscope parts and know their functions.
6. How was the development of microscope advantageous?
7. When were electron microscopes developed?
8. List the 3 parts of the Cell Theory.
9. What are the 2 major cell types? Describe them.
10. State the function of the following organelles/cell parts:
11. nucleus
12. nucleolus
13. nuclear membrane
14. plasma membrane
15. cell wall
16. ribosome
17. cytoplasm
18. rough endoplasmic reticulum
19. smooth endoplasmic reticulum
20. lysosome
21. vacuole
22. chloroplast
23. mitochondria
24. cytoskeleton
25. microtubules
26. microfilaments
27. centriole
28. cilia
29. flagella
30. Why are some cell organelles highly folded?
31. What organelles are present only in animal cells? Only in plant cells?

10. State the major contributions of the following scientists:

1. Brown
2. Hooke
3. Schwann
4. Schleiden
5. Virchow
6. van Leeuwenhoek

11. How do cell shape and function relate to each other?

12. Define selective permeability. Why is this important to cells?

13. What is the cell membrane made of?

14. What is the cell wall of plants made of?

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