**STUDY GUIDE FOR TEST: Cell Cycle Unit**

1. What are the 3 major PHASES of the Cell Cycle?( know the parts of the Cell Cycle Diagram)
2. Which is the longest phase of the Cell Cycle?
3. What are the 3 sub-phases of Interphase and what happens in each stage?
4. What is the definition for Mitosis and what kind of cells does it make?
5. What is the term for Body Cells ? for Sex Cells?
6. What are the 4 stages of Mitosis in order? (make sure you know what they look like)
7. What happens to the chromosomes during Prophase?
8. What holds sister chromatids together during Prophase?
9. What happens to the sister chromatids during Metaphase?
10. What will the spindle fibers attach to during Metaphase?
11. What happens to the sister chromatids during Anaphase?
12. How many sets of chromosomes are in the cell during Telophase?
13. What part of the cell divides during Cytokinesis? How many cells are formed?
14. What is the differences between Animal cell cytokinesis and Plant cell cytokinesis?
15. What is the original cell that divides called? What are the 2 new cells formed called?
16. What is another name for programmed cell death/cell suicide when the DNA is damaged?
17. What kind of cells form from uncontrolled, abnormal, fast, continuous cell division?
18. What is the symbol for chromosome Diploid number?
19. What is the Diploid number for Human Body cells ?
20. What is the symbol for chromosome Haploid number?
21. What is the Haploid number for Human Sex cells?
22. Body cells have chromosomes in pairs (they are similar) called \_?\_ pairs.
23. What is the definition for Meiosis and what kind of cells does it make?
24. What are Gametes? What is their chromosome number called?
25. What is the gamete for males and the gamete for females?
26. What are the 8 phases of Meiosis in order? (make sure you know what they look like)
27. How many divisions does Meiosis have and how many daughter cells does it make?
28. What are Tetrads and when do they form in Meiosis?
29. What process occurs with Tetrads during Meiosis and what is it for?