**CHAPTER 9: CELLULAR REPRODUCTION RFC #2**

\* Read the following questions, **THEN** read from Chapter 8 p. 248 to p. 252, **THEN** answer the following questions on your own paper in complete sentences.

1. What is the main idea for Section 2?
2. What occurs during mitosis AND what is the key activity of Mitosis?
3. Why are the two daughter cells said to be identical?
4. What happens to chromatin during prophase?
5. What are Sister Chromatids AND what is the centromere?
6. Why is the structure of sister chromatids important?
7. What happens to the nucleolus and the nuclear envelope (membrane) during prophase?
8. What is the spindle apparatus and what does each part due during prophase?
9. What do the spindle fibers do at the end of prophase AND for what reason?
10. **Type II:** In a minimum of 5 sentences, compare the key activity of interphase (section 1) with the key activity of mitosis?
11. What happens to the sister chromatids during metaphase?
12. Why is metaphase important even though it is the shortest stage of mitosis?
13. What happens to the chromatids during anaphase?
14. How are the chromatids separated during anaphase?
15. Where do the chromosomes go in Telophase and what happens to them?
16. What reappears during telophase?
17. What happens to the spindle apparatus at end of telophase?
18. What is cytokinesis and what is the end result?
19. **Type II:** In a **minimum of 5 sentences**, Compare and Contrast cytokinesis in animal and plant cells?
20. How is the division of prokaryotic cells different than that of eukaryotic cells?

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