

Name: \_\_\_\_\_

Pd. \_\_\_\_\_

Date: \_\_\_\_\_

### DNA Replication & Cell Division Review

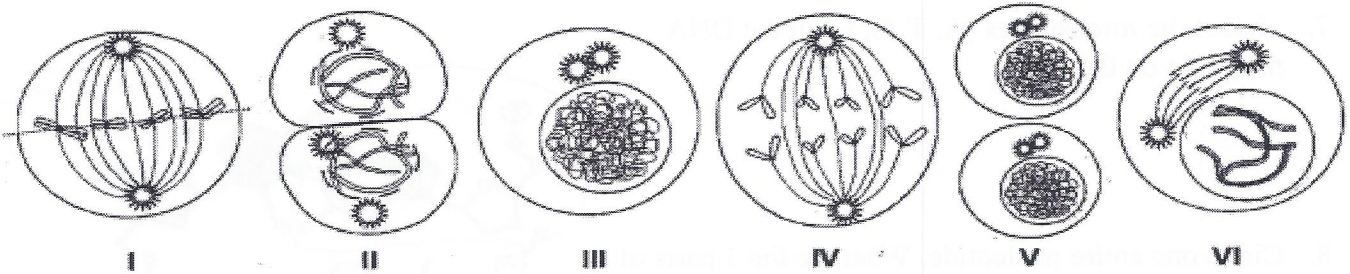
9. Briefly describe the steps of DNA Replication

- a. DNA Helicase unzips DNA
- b. DNA Polymerase adds complementary base to unzipped strand
- c. DNA replicates as 2 daughter strands

10. Which enzyme is responsible for "unzipping" the DNA double helix? DNA Helicase

11. Name the enzyme that builds DNA during replication: DNA Polymerase

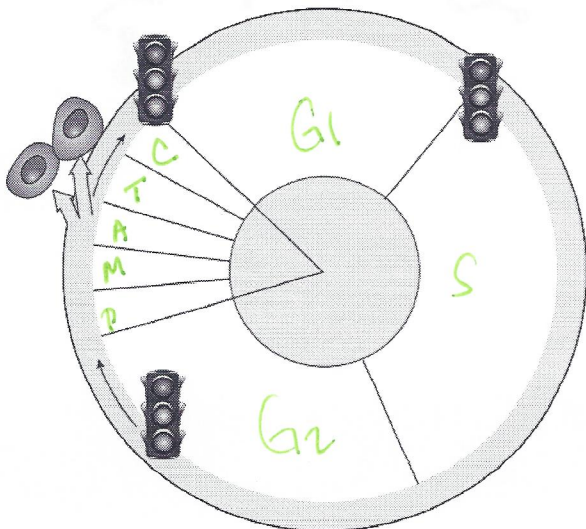
12. If the sequence of one single strand of DNA is 5' C-A-A-G-T-A-G-G-C-T 3', what is the sequence of the complementary strand? 3' G-T-T-C-A-T-C-C-G-A 5'



13. In the diagram above, what number depicts each phase?

- a. Interphase III
- b. Prophase II
- c. Metaphase I
- d. Anaphase IV
- e. Telophase V
- f. Cytokinesis VI

14. Fill in the sections of the Cell Cycle Wheel using the following: G1, S, G2, Prophase, Metaphase, Anaphase, Telophase, Cytokinesis.



15. Explain why cancer cells form?

Cells get stuck in G<sub>0</sub> ? don't stop replicating.