Name:	Date:
	Durc

## Molecular Genetics / Mitosis Review Sheet

A.)	The Nucleic Acids:
1.	The two types of nucleic acids are and
	contains an organism's protein codes, and aids in
	the process of protein synthesis.
2.	DNA stands for
	and RNA stands for
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4.	The building blocks of nucleic acids are
5.	These building blocks have parts. Draw and label these parts below:
6.	DNA has the shape of a The four nitrogenous
	bases found in DNA are,,,

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	Formula agents of the control of the	
NA Replication:		
•	ication in three steps:	
•	ication in three steps:	
-	ication in three steps:	
NA Replication: Describe DNA repl	ication in three steps:	
-	ication in three steps:	

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E.) Mitosis:
23. The process by which cells divide to produce two identical daughter cells, identical to the original cell is called \_\_\_\_\_\_\_.
24. \_\_\_\_\_\_\_ is the period of cell growth that occurs between cell division. During this time, the DNA exists as uncoiled strands of \_\_\_\_\_\_\_, or makes a copy of itself. Draw and label an animal cell in this phase.

25. Draw and label the four phases of mitosis in an animal cell. Be sure to label all important parts of the cell and provide a brief description of the key events that occur during each phase.

	Describe two ways that plant cell mitosis is different from animal cell mitosis.
	Mitosis always yields the same result. Describe this result, and explain why
	During cell division, two processes take place; the division of the nucleus known as, and the division of the cell membrane known as Explain what would happen if only the first
	process occurred:
ĺ	Define cancer:
	Explain why cancer is a "spreading disease"
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17.	List six types of asexual reproduction:	
		4.)
		5.)
18	S.)  Explain the difference between binary	
18.	Explain the difference between <b>binary</b>	
18.	Explain the difference between <b>binary</b>	fission and budding:

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