GRADE 12 BIOLOLGY UNIT A – GENETICS CELL GROWTH AND DIVISION

Name:	
Date: _	

1. Matching In the space provies the matches each term.	ided, write the letter of the definition that
mitosis	a. series of events that cells go through as they grow and divide
chromatid	b. one of two identical "sister" parts of a duplicated chromosome
cytokinesis	c. disorder in which some of the body's cells lose the ability to
cell cycle	control growth d. division of the cell nucleus
cell division	e. protein that regulates cell cycle
cyclin	f. process by which a cell divides into two new daughter cells
cancer	g. division of the cytoplasm
2. What are the four phases of	mitosis?
a.	b.
C.	d.
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3. Circle the letter of the name for th cytoplasm near the nuclear envelope	
a. centrioles	c. centromeres
b. spindles	d. chromatids
4. What is the spindle?	
5. Match the description of the event Each phase may be used more than	-
EventThe chromosomes move until they form two groups near the poles of the spindle.	Phase aProphase
The chromosomes become visible	bMetaphase
A nuclear envelope re-forms around each cluster of chromosomes.	c. Anaphase
The centrioles take up positions on opposite sides of the nucleus.	d. Telephase
The chromosomes line up across the center of the cell.	
The nucleolus becomes visible in each daughter nucleus.	

6.	What is cytokinesis?	
7.	How does cytokinesis occur in	most animal cells?
	Circle the letter of what forms nring cytokinesis in plant cells.	nidway between the divided nucleus
	a. cell nucleus	c. cell plate
	b. cytoplasm	d. cytoplasmic organelles