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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## 10 Cell Growth and Division Chapter Test B

NOTE: material from 10.4 was removed so just ignore the numbers skip around!

### Multiple Choice

Place the letter that best answers the question or completes the statement on the line provided.

1. Compared to small cells, large cells have more trouble  
a. dividing.  
b. producing daughter cells.  
c. storing needed materials and waste products.  
d. moving needed materials in and waste products out.
2. Which of the following happens when a cell divides?  
a. The cell's volume increases.  
b. It becomes more difficult for the cell to get rid of wastes.  
c. Each daughter cell receives 50 percent of the parent cell's DNA.  
d. It becomes more difficult for the cell to get enough oxygen and nutrients.
3. A multicellular organism begins life as a single cell—a fertilized egg with a complete set of chromosomes. This cell divides to become two cells, then four cells, eight cells, and so on. Which of the following statements best describes what happens during this process?  
a. Chromosomes are duplicated before cell division so that each new daughter cell has a complete set.  
b. Chromosomes are divided evenly during cell division so that each new daughter cell has an equal share of the original set.  
c. Chromosomes are stored in the original cell to direct the division of all daughter cells, which do not have their own chromosomes.  
d. Chromosomes are randomly distributed during cell division so that some new cells have partial sets while others have complete sets.
4. During which phase in the cell cycle does mitosis happen?  
a. G<sub>1</sub> phase  
b. G<sub>2</sub> phase  
c. M phase  
d. S phase
5. Which of the following is a correct statement about the events of the cell cycle?  
a. Little happens during the G<sub>1</sub> and G<sub>2</sub> phases.  
b. DNA replicates during cytokinesis.  
c. The M phase is usually the longest phase.  
d. Cytokinesis is part of the M phase.
6. The structure labeled A in Figure 10-1 is called the  
a. centromere.  
b. spindle.  
c. sister chromatid.  
d. spindle.
7. The structures labeled B in Figure 10-1 are called  
a. centromeres.  
b. centrioles.  
c. sister chromatids.  
d. spindles.



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