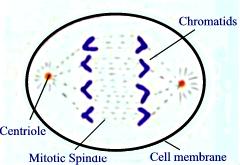
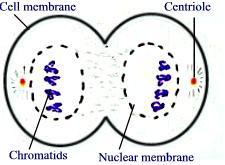
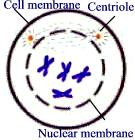
Chapter 12

|  |
| --- |
| Answer each question below related to mitosis, by selecting the most appropriate answer from the choices given. |

**1.** During which stage of mitosis is the nuclear membrane broken into fragments?  
Ο Early Prophase  
Ο Metaphase   
Ο Anaphase   
Ο Late Prophase   
**Answer:**   
**2.** Equatorial plate of the mitotic spindle is formed during the \_\_\_\_\_\_\_.  
Ο metaphase  
Ο anaphase   
Ο late prophase   
Ο early prophase   
**Answer:**   
**3.** Mitotic cell division is initiated in the \_\_\_\_\_\_\_.  
Ο centriole  
Ο centromere   
Ο nucleus   
Ο mitotic spindle   
**Answer:**   
**4.** During which stage of mitosis do nucleoli reappear?  
Ο Telophase  
Ο Anaphase   
Ο Early Prophase   
Ο Late Prophase   
**Answer:**   
**5.** The number of chromosomes in a human cell is \_\_\_\_\_\_\_.  
Ο 2   
Ο 4   
Ο 23   
Ο 46  
**Answer:**   
**6.** The resting stage of the cell is known as the \_\_\_\_\_\_\_.  
Ο interphase  
Ο telophase   
Ο anaphase   
Ο prophase   
**Answer:**

**7.** During which stage of mitosis do chromatids separate to form two sets of daughter chromosomes?  
Ο Anaphase  
Ο Telophase   
Ο Prophase   
Ο Interphase   
**Answer:**   
**8.** Genetic information is transferred from parent to daughter cells through the \_\_\_\_\_\_\_.  
Ο nucleus  
Ο mitochondria   
Ο endoplasmic reticulum   
Ο centrioles   
**Answer:**   
**9.** Which stage of mitosis is depicted in the diagram below?   
  
Ο Anaphase  
Ο Metaphase   
Ο Telophase   
Ο Prophase   
**Answer:**   
**10.** Which stage of mitosis is depicted in the diagram below?   
  
Ο Telophase  
Ο Metaphase   
Ο Anaphase   
Ο Prophase   
**Answer:**

**11.** Which stage of mitosis is depicted in the diagram below?   
  
Ο Prophase  
Ο Anaphase   
Ο Metaphase   
Ο Telophase   
**Answer:**   
**12.** Which of the following is the longest stage of mitosis?  
Ο Prophase  
Ο Telophase   
Ο Metaphase   
Ο Anaphase   
**Answer:**   
**13.** During which stage of mitosis does longitudinal splitting of the chromosomes occur?  
Ο Anaphase  
Ο Prophase   
Ο Telophase   
Ο Metaphase   
**Answer:**   
**14.** The interphase and mitosis together constitute the cell cycle.  
Ο True  
Ο False   
**Answer:**   
**15.** The nuclear membrane is formed around the newly-formed sets of daughter chromosomes during the telophase.  
Ο True  
Ο False   
**Answer:**   
**16.** During mitosis, loosely arranged strands of chromosomes become coiled, shortened and distinct during the metaphase.  
Ο True   
Ο False  
**Answer:**

**Questions from** [**www.syvum.com**](http://www.syvum.com)

**SI Website: www.elielarrey.com**