Chapter 12

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| 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:**

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