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Which of the following statements about mitosis is correct

The Biology Project > Cell Biology > Intro. to Cell Cycle & Mitosis > Problems Problem 10: Mitosis Which of the following statements is NOT true of mitosis? A. A single nucleus gives rise to two identical daughter nuclei. Incorrect. In mitosis, identical copies of the chromosomes are produced and placed in each of the daughter cells. Try again
Vocabulary The Biology Project > Cell Biology > Intro. to Cell Cycle & Mitosis > Problems The Biology Project Department of Biochemistry and Molecular Biophysics University of Arizona April 1997 Revised: August 2004 Contact the Development Team All contents copyright © 1997 - 2004. All rights reserved. Welcome to another practice quiz! Pick the best answer for each question. Your score will decrease with every wrong guess. If you guess wrong 3 times on a question, you will receive no points. Get every answer correct the first time to score 100%. Good luck! If you wish to try the quiz again, just click the "reload" button in your browser. When you have completed the quiz, your score will appear here--> This diagram illustrates the process of mitosis. Which of the following statements describes a chromosome as it goes through mitosis, from beginning to end? Sister chromatids thicken and shorten, then line up along the middle of the cell, and split apart at their centromeres, and one chromatid goes into each of the two new cells

Two identical chromosomes fuse together at the middle of the cell, and one chromosome goes into each of the two new cells The organelles of a cell replicate, the cell slowly splits in two, and chromosomes move from one cell into one of the new cells through the endoplasmic reticulum Two chromosomes join together at a centromere to form sister chromatids, they line up along the middle of the cell, and one chromosome goes into each new cell Which of the following statements about the cell cycle is least accurate? Mitosis results in organisms producing reproductive cells Repairs to the organism can occur as new cells are produced Cells that are likely to be damaged or injured can be replaced frequently Young organisms grow larger and develop specialized structures Which of the following would not affect the rate of mitosis in your body? Sitting in a seat on the bus that always has sunlight shining through the same window in the morning Moving to Calgary, which is at a much higher altitude Taking bacteriostatic drugs to fight an infection Taking cytostatic drugs to fight a cancer What term is used to describe the death and removal of a cell that is no longer useful to an organism? Apoptosis Regeneration Cytokinesis Epidermis A cell mutates when exposed to cigarette smoke. It does not stop dividing, does not stick to normal cells around it, and can move from one location of the body to another. What kind of cell is this? Cancer cell Apoptotic cell Replicating cell Normal cell Which of the following statements best describes human chromosomes? Humans have 46 chromosomes, which can be arranged into 23 pairs Humans have 12 chromosomes, which can be arranged into 6 pairs Humans have 64 chromosomes, which can be arranged into 32 pairs Humans have 254 chromosomes, which can be arranged into 127 pairs Use the information to answer the following question. The Cell Cycle I. G1 phase II. S phase III. G2 phase IV. prophase V. metaphase VI. anaphase VII. telophase VIII. cytokinesis In which phases of the cell cycle does the cell grow normally, without any division or replication occurring? I and III I, II, and III IV, V, VI, and VII I, III, and VIII Use the information to answer the following question. The Cell Cycle I. G1 phase II. S phase III. G2 phase IV. prophase V. metaphase VI. anaphase VII. telophase VIII. cytokinesis In which phase of the cell cycle do the sister chromatids get pulled apart, with one chromatid eventually ending up in each of the two daughter cells? Use the information to answer the following question. The Cell Cycle I. G1 phase II. S phase III. G2 phase IV. prophase V. metaphase VI. anaphase VII. telophase VIII. cytokinesis What is the M-phase of cell division? Mitosis and cytokinesis, which consists of IV, V, VI, VII, and VIII Metaphase, which consists of V Mitosis, which consists of IV, V, VI, and VII Mitosis and cell growth, which consists of I, IV, V, VI, and VII Where would you expect to find an area of rapid mitosis in an adult human? Intestinal cells Nerve cells Bone cells Tooth cells Transcribed image text: Which of the following statements about mitosis is true? O a. Mitosis produces two daughter cells identical to the mother cell. b Mitosis is the division of the nuclear component (DNA) which is then followed by the division of the cytoplasm (cytokinesis). c A mitotically dividing cell copies its DNA, separates these copies at opposite poles and then divides. d All of the above O e. A and B only

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