

Answer Key

SECTION 1. THE CELL CYCLE

Cell Cycle: (1) G₀/G₁ - cells grow, carry out normal functions, and copy their organelles; (2) Synthesis (S) - cells replicate DNA; (3) G₂ - cells go through additional growth; (4) Mitosis (M) - cells undergo cell division, which involves both the separation of nucleus and cytoplasm.

1. At the time that these stages were named, scientists could not observe any activity going on in cells, so they thought there were gaps in cellular activity.
2. G₁ and G₂
3. in the nucleus
4. nucleus and cytoplasm
5. G₀
6. The rate of cell division is linked to the body's need for that cell type. Skin cells are typically required to meet damaging conditions and must be replaced more often than liver cells.
7. The name that some scientists give to the stage where cells carry out their normal functions but are ready to divide.
8. Answer: will vary. Sample answer: Cell size is limited because all substances must cross the membrane. Enough material needs to enter and exit to keep the cell alive. Since volume tends to increase faster than surface area (in a sphere or cube), the volume could quickly become too large compared to the area available for exchange. In a similar way, people in a very large theater that holds thousands might not be able to exit quickly in an emergency. People in a smaller theater that holds fewer people could probably exit more quickly.
9. volume
10. growth and division
11. Answer: will vary, but should relate the occurrence of something (steps, phases, the motion of a wheel) to the repeating pattern of growth, DNA duplication, and cell division that occurs in eukaryotic cells.
12. cytokinesis, cyto- refers to a cell and kinesis refers to division or movement

13. nucleus

SECTION 2. MITOSIS AND CYTOKINESIS

1. one long-continuous strand of DNA that has many genes and regulatory information
2. so they can be more easily divided between the two nuclei
3. Proteins need to be able to access genes during other stages of the cell cycle so that they can be used to make proteins or so that the entire DNA sequence can be copied.
- DNA Diagram:** Refer to Figure 2.2 for visual answer.
4. During interphase, a cell duplicates its DNA and organelles.
5. body cells
6. Answer: will vary. Sample answer: Pat's mom ate tomatoes.
Cycle Diagram: Refer to Figure 2.4 for visual answer. Labels (clockwise): metaphase, anaphase, telophase
7. In animal cells, the microtubule pinches together, forming a cleavage furrow. In plant cells, the microtubule cannot pinch together because of the cell wall. Instead, a cell plate is laid down between the two nuclei, which will develop into the new cell walls and cell membranes.
8. telomeres
9. chromosomes
10. chromosomes
11. telomeres

SECTION 3. REGULATION OF THE CELL CYCLE

1. cell division
2. platelet-derived growth factor
3. specific cells
4. cyclins
5. kinases
6. phosphorylate

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Biofilms in Infection Prevention and Control Steven L. Percival, David Williams, Tracey Cooper, Jacqueline Randle, 2014-01-30 Biofilms in Infection and Disease Control A Healthcare Handbook outlines the scientific evidence and rationale for the prevention of infection the role biofilms play in infection control and the issues concerning their resistance to antimicrobials This book provides practical guidance for healthcare and infection control professionals as well as students for preventing and controlling infection Biofilms are the most common mode of bacterial growth in nature Highly resistant to antibiotics and antimicrobials biofilms are the source of more than 65 percent of health care associated infections HCAI which according to the WHO affect 1 4 million people annually Biofilms are involved in 80 percent of all microbial infections in the body including those associated with medical devices such as catheters endotracheal tubes joint prostheses and heart valves Biofilms are also the principle causes of infections of the middle ear dental caries gingivitis prostatitis and cystic fibrosis Importantly biofilms also significantly delay wound healing and reduce antimicrobial efficiency in at risk or infected skin wounds Provides specific procedures for controlling and preventing infection Includes case studies of HCAI and identifies appropriate treatments Presents national government standards for infection prevention and control Includes extensive references and links to websites for further information *Science Education Research and Practice in Asia-Pacific and Beyond* Jennifer Yeo, Tang Wee Teo, Kok-Sing Tang, 2017-10-16 This book is based on presentations at the International Science Education Conference ISEC 2014 It showcases a selection of the best papers by researchers and science teachers from the Asia Pacific region North America and the United Kingdom Centered on the theme of Pushing the boundaries Investing in our future they pursue new ways of helping learners appreciate the diversity and changes in science that result from a globalised world facing complex and diverse environmental and technological issues The chapters touch on various themes in science education that explore and investigate issues of scientific literacy societal challenges and affect and teacher professional development Its comprehensive themes make it a valuable textbook for graduate students of master s and Ph D programs It also appeals to pre service and in service teachers as a resource on innovative pedagogical practices and creative methods of professional development With a selection that emphasises the research practice nexus in education research it serves as an introductory handbook for teachers to connect with the current issues facing science education

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