

Cell Growth and Division**Study Guide A****Answer Key****SECTION 1. THE CELL CYCLE**

1. a, d; b, c
2. gaps
3. c and d
4. c
5. b and d
6. G₁
7. G₂
8. c
9. faster; too large
10. volume
11. a and b
12. repeating pattern or repetition
13. divides
14. mitosis

SECTION 2. MITOSIS AND CYTOKINESIS

1. DNA
2. divided
3. genes
4. Refer to Figure 3.3 for a visual answer.
5. duplicating
6. Answers will vary. Sample answer: Peel me a turnip.
7. Refer to Figure 3.4 for a visual answer. Labels clockwise: Metaphase, Anaphase, Telophase
8. cell wall, cell plate
9. mitosis
10. chromosomes
11. centromere
12. 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
7. cell division
8. b
9. cancer
10. a, tumors; b, benign; c, malignant; d, metastasis
11. spread and grow
12. carcinogen
13. Answers will vary.

SECTION 4. ASEXUAL REPRODUCTION

1. identical; unique
- 2-4 Refer to the Visual Vocab in Section 4 for sketches: 2, b; 3, a; 4, c
5. Advantage
6. Advantage
7. Disadvantage
8. Advantage
9. Disadvantage
10. Disadvantage
11. identical
12. simpler
13. budding, fragmentation, vegetative reproduction
14. a, b, and c
15. two; For the second part, answers will vary, but students should recognize that "two" indicates two of something. Sample: bicycle; two wheels
16. asexual reproduction

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LP Steffe

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Teacher's Guide to the Modern Biology Program James Howard Otto,Albert Towle,Elizabeth H. Crider,1965 **Barron's how to Prepare for College Entrance Examinations** Samuel C. Brownstein,Mitchel Weiner,1974 A guide to preparing for college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English parts of the SAT Includes practice tests **El-Hi Textbooks in Print**,1982 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **Modern Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-01-01 *The Publishers' Trade List Annual*,1981 **Biology**,1986 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1969-07 *Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office* Library of Congress. Copyright Office,1978

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