

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 2.2 for a visual answer.
5. duplicating
6. Answers will vary. Sample answer: Peel me a turnip.
7. Refer to Figure 2.4 for a visual answer. Labels clockwise: Metaphase, Anaphase, Telophase
8. cell wall; cell plate
9. histones
10. Chromatids
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, metastases
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 “bi” indicates two of something. Sample: bicyclic; 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
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Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth
Edition of Essential Genetics is designed for the shorter less comprehensive introductory course in genetics The text is
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historical context in which genetics has developed and become aware of the genetic resources and information available
through the Internet **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1985

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Molecular Evolution **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12 **The American Biology**
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