

## 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. G<sub>1</sub>
7. G<sub>2</sub>
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

# Modern Biology Study Guide Answer Key Cell

**Samuel C. Brownstein, Mitchel Weiner**

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