

# 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 2.3 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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college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English  
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