

Answers to Review of Chapter 5

1. (2) 2. (1) 3. (3) 4. (4) 5. (4) 6. (1) 13. (4) 14. (1) 15. (4) 16. (3) 17. (1) 18. (3)
7. (1) 8. (3) 9. (2) 10. (2) 11. (3) 12. (1) 19. (1) 20. (2)

Answers to Questions in Reviewing Intermediate-Level Science

LIVING THINGS AND THEIR CHARACTERISTICS

Review Questions Pages 160–162

Part I

1. (4) 2. (1) 3. (4) 4. (1) 5. (3) 6. (2)
7. (3) 8. (4)

Part II

9. Cell A is a plant cell.
10. cell wall and chloroplasts
11. carbon dioxide and water (chlorophyll is another answer)
12. respiration
13. excretion
14. respiration (exhaling) or perspiration

Pages 162–163—Process Skill 1: Interpreting an Experiment

1. Maggots come from flies.
2. Spontaneous generation is not correct.

MICROORGANISMS

Pages 166–168—Laboratory Skill: Estimating the Size of a Cell

1. between 2.5 and 3 mm
2. between 0.625 and 0.75 mm
3. 0.5 mm
4. Staining darkens certain parts of the cell, making them easier to see.

5. 1 1/4 cells
6. fine-adjustment knob
7. It would be the same.

Pages 170–172—Process Skill 2: Experimental Design

1. The temperature
2. (2)
3. 2 days
4. (4)
5. There were two independent variables. OR The temperature should have been the same for all brands.
6. (4)

Review Questions Pages 172–174

Part I

15. (3) 16. (4) 17. (1) 18. (4) 19. (2) 20. (1)
21. (1)

Part II

22. Coarse-adjustment knob
23. Objectives (or revolving nosepiece)
24. Several answers are possible—any disease from Table 5-4
25. yogurt, yeast, bean seeds
26. (1)
27. It would have stayed dark blue.