

# Module 01 Quiz: Exploring Life Science

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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## Part A: Multiple Choice (7 points)

*Choose the best answer for each question. (1 point each)*

1. Which of the following is a characteristic of ALL living things?
2. A) Photosynthesis
3. B) Movement
4. C) Made of cells
5. D) Sexual reproduction
6. The correct order of the steps in the scientific method is:
7. A) Hypothesis → Observation → Experiment → Conclusion
8. B) Observation → Hypothesis → Experiment → Conclusion
9. C) Experiment → Observation → Hypothesis → Conclusion
10. D) Conclusion → Hypothesis → Observation → Experiment
11. Which level of organization is more complex than a tissue?
12. A) Cell
13. B) Molecule
14. C) Organ
15. D) Organelle
16. A well-tested explanation that unifies a broad range of observations is called a:
17. A) Hypothesis
18. B) Theory

19. C) Variable
20. D) Control
21. Homeostasis refers to:
22. A) The ability to reproduce
23. B) Maintaining a stable internal environment
24. C) Response to light
25. D) Growth and development
26. In an experiment testing whether fertilizer affects plant growth, the control group would be:
27. A) Plants given fertilizer
28. B) Plants given water but no fertilizer
29. C) Plants given extra sunlight
30. D) Plants grown in different soil types
31. Which of the following represents the correct order from smallest to largest?
32. A) Cell → Tissue → Organ → Organism
33. B) Tissue → Cell → Organ → Organism
34. C) Organ → Tissue → Cell → Organism
35. D) Organism → Organ → Tissue → Cell
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## Part B: Free Response (3 points)

*Answer each question in complete sentences.*

1. (1 point) Define "hypothesis" and explain why a hypothesis must be testable.
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1. (1 point) List three characteristics that all living organisms share and briefly explain each one.

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1. (1 point) Explain the difference between a control group and an experimental group in a scientific experiment.

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