

AIMS SCIENCE PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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1. Which statement best describes plate tectonics?

- A. The Earth's lithosphere is divided into moving tectonic plates
- B. The Earth's surface is a single rigid shell
- C. The atmosphere drives plate movement
- D. The oceans are the sole driver of plate motion

2. Which term means to make something smaller or use less resources?

- A. Increase
- B. Reduce
- C. Expand
- D. Intensify

3. Which term describes a loop of material that can transfer electricity?

- A. Open circuit
- B. Circuit
- C. Insulator
- D. Electron

4. Which is the female part of the flower?

- A. Petal
- B. Stigma
- C. Pistil
- D. Sepal

5. What are the reactants of photosynthesis?

- A. Carbon dioxide and water
- B. Oxygen and glucose
- C. Carbon monoxide and water
- D. Nitrogen and water

6. Which statement best describes the rock cycle?

- A. Rocks are formed, broken down, and reformed through various processes over time.
- B. Rocks stay the same once formed.
- C. Only igneous rocks are formed by cooling.
- D. Sedimentary rocks are the only rocks that change.

- 7. Which part anchors the plant and helps it absorb water and minerals?**
- A. Root
 - B. Stem
 - C. Leaf
 - D. Flower
- 8. Which term refers to the male reproductive structure of a flower?**
- A. Petal
 - B. Sepal
 - C. Pistil
 - D. Stamen
- 9. What is the process of turning waste materials into new products rather than disposing of them?**
- A. Reuse
 - B. Recycle
 - C. Repair
 - D. Reclaim
- 10. The surroundings in which plants and animals live and depend to live is called what?**
- A. Habitat
 - B. Environment
 - C. Population
 - D. Resource

Answers

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1. C
2. B
3. B
4. C
5. A
6. A
7. A
8. D
9. B
10. B

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Explanations

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1. Which statement best describes plate tectonics?

- A. The Earth's lithosphere is divided into moving tectonic plates
- B. The Earth's surface is a single rigid shell
- C. The atmosphere drives plate movement**
- D. The oceans are the sole driver of plate motion

Plate tectonics describes Earth's outer shell as being broken into many moving plates that float on the hotter, plastic layer beneath them called the asthenosphere. These plates drift because heat-driven convection currents in the mantle move the rock, and gravity helps pull dense oceanic plates down at subduction zones while pushing at mid-ocean ridges. This combination of forces causes the plates to collide, slide past one another, or pull apart, leading to earthquakes, volcanoes, and mountain building. The idea that the surface is a single rigid shell isn't accurate because the continents and oceans sit on separate plates that move relative to each other. The atmosphere doesn't drive plate movement; its processes are atmospheric and surface phenomena, far removed from the deep-Earth forces that govern plate motion. The oceans aren't the sole driver either, though interactions at oceanic boundaries and water loading can influence patterns of movement. The fundamental drivers are mantle convection and related forces like slab pull and ridge push.

2. Which term means to make something smaller or use less resources?

- A. Increase
- B. Reduce**
- C. Expand
- D. Intensify

This question tests vocabulary for lowering amount or size. To reduce means to make something smaller or use fewer resources—cutting down, decreasing, or trimming where you're using less. For example, you can reduce energy consumption by turning off lights when not needed or reduce waste by recycling more. The other options don't fit as well: increase means to become larger or more, expand means to grow in size or scope, and intensify means to become stronger or more extreme, not simply smaller. That's why the best choice is to reduce.

3. Which term describes a loop of material that can transfer electricity?

- A. Open circuit
- B. Circuit**
- C. Insulator
- D. Electron

A closed conducting path that lets electric charges move is a circuit. A circuit is a complete loop that includes a power source, conductors, and a device (the load) so current can flow from the source, through the wires, through the device, and back to the source. If the loop is broken, you have an open circuit, and current cannot flow. An insulator would resist or block the flow, and an electron is simply a charged particle, not the path itself. So the term that describes a loop of material capable of transferring electricity is a circuit.

4. Which is the female part of the flower?

- A. Petal
- B. Stigma
- C. Pistil**
- D. Sepal

In flowering plants, the female reproductive structure is the pistil. The pistil sits at the center of the flower and is made up of the stigma, style, and ovary. The stigma is the sticky tip that catches pollen, then pollen travels down the style to the ovary where fertilization of the ovules can occur. After fertilization, the ovary often develops into fruit containing seeds. Petals attract pollinators but aren't the reproductive part, and sepals protect the bud. The stigma is part of the pistil, but the entire female structure is the pistil, which is why it's the correct answer.

5. What are the reactants of photosynthesis?

- A. Carbon dioxide and water**
- B. Oxygen and glucose
- C. Carbon monoxide and water
- D. Nitrogen and water

Photosynthesis uses carbon dioxide from the air and water from the soil as the starting materials that plants convert into sugar and oxygen using light energy. In this process, carbon dioxide and water are the reactants, and oxygen and glucose are the products. The idea is that the plant takes in CO₂ and H₂O, powered by light, to build sugars for energy and growth, releasing oxygen in the process. The other options mix up substances that are produced (oxygen and glucose) or aren't part of this reaction (carbon monoxide or nitrogen).

6. Which statement best describes the rock cycle?

- A. Rocks are formed, broken down, and reformed through various processes over time.**
- B. Rocks stay the same once formed.
- C. Only igneous rocks are formed by cooling.
- D. Sedimentary rocks are the only rocks that change.

Rocks are not fixed objects in nature; they continuously cycle through different forms because of processes like weathering, erosion, deposition, burial, lithification, metamorphism, melting, and cooling. This means material from a rock can be broken down into sediments, become part of sedimentary rock through compaction and cementation, be transformed into metamorphic rock under heat and pressure, or melt and later crystallize into new igneous rock. Over long geologic timescales, these transformations repeat, reshaping Earth's crust. That idea is why the statement about rocks being formed, broken down, and reformed through various processes over time best captures the rock cycle. Rocks do change after formation, not just stay the same; many rocks form by different routes (sedimentary rocks from sediment, igneous rocks from cooling magma, metamorphic rocks from altered minerals), and all rock types can be altered or melted and re-crystallized.

7. Which part anchors the plant and helps it absorb water and minerals?

- A. Root
- B. Stem
- C. Leaf
- D. Flower

The main idea is that roots handle anchoring and nutrient uptake. Roots grow into the soil to hold the plant in place, so it doesn't get toppled by wind or rain. They also have root hairs that greatly increase surface area, allowing water and minerals dissolved in the soil to enter the plant through osmosis and active transport. Once inside, the water and minerals are transported upward through the plant's vascular system to where they're needed. In contrast, stems mainly support the plant and move substances up and down, leaves are where photosynthesis happens, and flowers are for reproduction. So, the part that anchors the plant and helps it absorb water and minerals is the root.

8. Which term refers to the male reproductive structure of a flower?

- A. Petal
- B. Sepal
- C. Pistil
- D. Stamen

Male reproductive structure of a flower is the stamen, which produces pollen in the anthers at the top of filaments. Pollen grains carry the male genetic material needed for fertilization when transferred to a stigma. The female structure is the pistil, with the stigma receiving pollen, the style forming a path to the ovary where eggs are fertilized. Petals attract pollinators, and sepals protect the bud. Since the question asks for the male part, the stamen is the correct term.

9. What is the process of turning waste materials into new products rather than disposing of them?

- A. Reuse
- B. Recycle
- C. Repair
- D. Reclaim

Turning waste into new products instead of throwing it away is recycling. It involves collecting materials, processing them into raw materials, and using them to manufacture new items. This helps conserve natural resources, reduce landfill waste, and often save energy compared with making products from virgin materials. Reuse means using the same item again with little or no processing, repair is about fixing broken items, and reclaim focuses on recovering specific components or materials from waste rather than making entirely new products from processed recyclables.

10. The surroundings in which plants and animals live and depend to live is called what?

A. Habitat

B. Environment

C. Population

D. Resource

Environment refers to all the surroundings and conditions that affect living things. It includes both the places and the factors—like climate, air, water, soil, and other organisms—that plants and animals rely on to survive and thrive. A habitat is the specific place within that environment where an organism tends to live, while environment is the broader set of conditions that influence life. A population is just a group of organisms, and a resource is something they use, not the surrounding conditions themselves. So the surroundings that support life for plants and animals are best described as the environment.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://aimsscience.examzify.com>

We wish you the very best on your exam journey. You've got this!

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