

# MATES Admission Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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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. Why is it beneficial to engage with diverse reading materials in preparation?**
  - A. To reduce the time spent studying**
  - B. To expose oneself to different writing styles and concepts**
  - C. To find only the easiest reading options**
  - D. To focus solely on historical texts**
  
- 2. What type of reasoning does the verbal section of the test often require?**
  - A. Deductive reasoning to solve equations**
  - B. Abstract reasoning to understand complex language concepts**
  - C. Inductive reasoning for data analysis**
  - D. Practical reasoning for real-life situations**
  
- 3. What is the primary role of the digestive system?**
  - A. Absorbing oxygen**
  - B. Breaking down food into smaller molecules**
  - C. Pumping blood**
  - D. Managing hormones**
  
- 4. What does the Pythagorean Theorem state?**
  - A.  $a^2 + b^2 = c^2$**
  - B.  $c^2 = a + b$**
  - C.  $c = a + b^2$**
  - D.  $a + b = c$**
  
- 5. What is the most common form of matter found in the universe?**
  - A. Solid**
  - B. Gas**
  - C. Liquid**
  - D. Plasma**

- 6. What does the term 'convection currents' refer to?**
- A. The flow of air due to temperature differences**
  - B. Movement of water in oceans**
  - C. The waves produced on the surface of liquids**
  - D. The transfer of heat through direct contact**
- 7. Which of the following does NOT typically enhance clarity in writing?**
- A. Using bullets and lists**
  - B. Employing jargon-heavy language**
  - C. Shortening sentences**
  - D. Breaking down complex ideas**
- 8. How many parts does an atom consist of?**
- A. 1**
  - B. 2**
  - C. 3**
  - D. 4**
- 9. What is the benefit of discussing study content with peers?**
- A. It takes less time to study**
  - B. It allows for different perspectives and clarification of concepts**
  - C. It minimizes the amount of information learned**
  - D. It replaces the need for individual study**
- 10. Which step in the rock cycle involves cooling magma?**
- A. Formation of Metamorphic Rock**
  - B. Formation of Sedimentary Rock**
  - C. Formation of Igneous Rock**
  - D. Formation of Magma**

## Answers

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

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## **Explanations**

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**1. Why is it beneficial to engage with diverse reading materials in preparation?**

**A. To reduce the time spent studying**

**B. To expose oneself to different writing styles and concepts**

**C. To find only the easiest reading options**

**D. To focus solely on historical texts**

Engaging with diverse reading materials is beneficial because it allows individuals to encounter various writing styles, perspectives, and subjects. This exposure enhances comprehension skills and broadens one's understanding of different concepts and contexts. By interacting with a wide range of texts, one can learn how different authors articulate ideas, structure arguments, and use language effectively, which is crucial for developing critical thinking and analytical skills. Additionally, diverse reading can help improve vocabulary and foster a greater appreciation for literature and the nuances of language. This kind of preparation not only equips a learner with the ability to tackle different types of questions and texts they may encounter in exams but also promotes adaptability in thought and reasoning. Therefore, the advantage of engaging with diverse reading materials ultimately lies in the enrichment of one's educational experience and academic performance.

**2. What type of reasoning does the verbal section of the test often require?**

**A. Deductive reasoning to solve equations**

**B. Abstract reasoning to understand complex language concepts**

**C. Inductive reasoning for data analysis**

**D. Practical reasoning for real-life situations**

The verbal section of the test requires abstract reasoning to understand complex language concepts. This type of reasoning involves recognizing patterns, understanding relationships between ideas, and interpreting meanings beyond the literal definitions of words. It is essential for tasks such as comprehending reading passages, analyzing arguments, and making inferences from the text. Abstract reasoning helps individuals to grasp nuanced language usages, figurative language, and implied meanings, which are common in verbal assessments. This capability is crucial for navigating the sophisticated language often encountered in advanced verbal reasoning tasks. Consequently, a strong understanding of abstract reasoning is vital for success in this section of the test, which challenges students to engage with language on a deeper cognitive level.

### 3. What is the primary role of the digestive system?

- A. Absorbing oxygen
- B. Breaking down food into smaller molecules**
- C. Pumping blood
- D. Managing hormones

The primary role of the digestive system is to break down food into smaller molecules. This essential function allows the body to convert the food we consume into nutrients that can be absorbed into the bloodstream and utilized by cells for energy, growth, and repair. The digestive system comprises several key organs, including the mouth, esophagus, stomach, small intestine, and large intestine, each contributing to the breakdown and absorption process. In the mouth, mechanical chewing and enzymatic action begin the digestion. As food moves through the digestive tract, various enzymes and acids further break it down into simpler forms, such as amino acids, simple sugars, and fatty acids, which can then be absorbed in the small intestine. The efficiency of this breakdown is crucial for the body to receive the nutrients necessary for overall health. While other options mention functions related to different systems in the body, such as the respiratory system (absorbing oxygen), the circulatory system (pumping blood), and the endocrine system (managing hormones), these functions are not part of the primary role of the digestive system. Instead, they pertain to other vital processes necessary for maintaining life and health.

### 4. What does the Pythagorean Theorem state?

- A.  $a^2 + b^2 = c^2$**
- B.  $c^2 = a + b$
- C.  $c = a + b^2$
- D.  $a + b = c$

The Pythagorean Theorem states that in a right-angled triangle, the square of the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the lengths of the other two sides. This relationship is expressed mathematically as  $a^2 + b^2 = c^2$ , where 'a' and 'b' are the lengths of the two legs of the triangle, and 'c' is the length of the hypotenuse. This theorem is fundamental in geometry because it defines the geometric relationship between the three sides of a right triangle. It is extensively applied in various fields, including engineering, physics, and computer science, for determining distances and solving problems involving right triangles. The other options do not represent the correct relationship for a right triangle. For example, the equation  $c^2 = a + b$  suggests a linear relationship rather than a geometric one, and both  $c = a + b^2$  and  $a + b = c$  do not adhere to the principles outlined by the Pythagorean Theorem. Hence,  $a^2 + b^2 = c^2$  accurately captures the essence of this important mathematical principle.

**5. What is the most common form of matter found in the universe?**

- A. Solid**
- B. Gas**
- C. Liquid**
- D. Plasma**

The most common form of matter found in the universe is plasma. Plasma is a state of matter where gases become ionized, meaning that the atoms are energetically energized enough that they lose some of their electrons. This ionization allows plasma to be highly conductive and responsive to electromagnetic fields. Plasma makes up a significant portion of the universe, particularly in stars, where the extreme temperatures cause the hydrogen and helium gas to form plasma. The sun, for example, is composed of a hot plasma consisting mainly of hydrogen ions and electrons. Additionally, plasma exists in vast quantities in galaxies, nebulae, and throughout the interstellar medium. In contrast, solids, liquids, and gases, while present in various environments, do not account for the majority of observable matter in the universe. The balance of matter types shifts dramatically in celestial bodies and astronomical phenomena, emphasizing the dominance of plasma in the cosmic landscape. Consequently, in terms of overall abundance, plasma is undeniably the leading form of matter present in the universe.

**6. What does the term 'convection currents' refer to?**

- A. The flow of air due to temperature differences**
- B. Movement of water in oceans**
- C. The waves produced on the surface of liquids**
- D. The transfer of heat through direct contact**

The term 'convection currents' primarily refers to the flow of air or fluid resulting from temperature differences within that medium. When a fluid, such as air or water, is heated, it becomes less dense and rises. Conversely, cooler, denser fluid will sink. This movement creates a circulation pattern known as convection currents, which is fundamental in various natural processes, including weather patterns and ocean dynamics. The option emphasizing the flow of air due to temperature differences accurately captures the essence of convection currents, as this process occurs both in the atmosphere and in fluids such as water. The other options, while related to movement and heat, do not fully encapsulate the specific mechanism of convection currents, which relies on the interplay of temperature changes and the resulting density variations.

7. Which of the following does NOT typically enhance clarity in writing?

- A. Using bullets and lists
- B. Employing jargon-heavy language**
- C. Shortening sentences
- D. Breaking down complex ideas

Using jargon-heavy language can create confusion and obfuscate meaning rather than enhance clarity in writing. Clarity is achieved by making ideas accessible and understandable to a broad audience, and jargon often relies on specialized knowledge that may not be familiar to all readers. In contrast, using bullets and lists helps to organize information neatly, making it easier to read and comprehend. Shortening sentences can eliminate unnecessary complexity, allowing readers to grasp the main points quickly. Breaking down complex ideas into simpler components helps readers follow the logic and understand the material more easily. Overall, clarity in writing is about making information as straightforward and digestible as possible, which jargon does not support.

8. How many parts does an atom consist of?

- A. 1
- B. 2
- C. 3**
- D. 4

An atom is composed of three main parts: protons, neutrons, and electrons. Protons and neutrons are found in the nucleus at the center of the atom, while electrons orbit around the nucleus in various energy levels. The protons carry a positive charge, neutrons are neutral, and electrons carry a negative charge. This arrangement allows atoms to bond with each other to form molecules, which are the building blocks of matter. Understanding these three components is essential in the study of chemistry and atomic structure, as they determine the properties and behavior of elements. The other options provided do not represent the fundamental structure of an atom, which is consistently defined as having these three components.

9. What is the benefit of discussing study content with peers?

- A. It takes less time to study
- B. It allows for different perspectives and clarification of concepts**
- C. It minimizes the amount of information learned
- D. It replaces the need for individual study

Discussing study content with peers offers significant benefits, one of which is the opportunity to gain different perspectives and clarification of concepts. When students engage in discussions, they can share their understanding, point of view, and insights on the material, which can lead to a deeper comprehension of the subject matter. Different peers may possess varied experiences or interpretations of concepts, which can highlight aspects that one individual might not have considered. This interaction can also help in identifying gaps in knowledge. If someone struggles with a particular concept, peers can provide explanations or examples that illuminate that topic, making it easier to grasp. Additionally, the collaborative learning environment encourages questions and active engagement, which further reinforces learning. Thus, peer discussions are essential for enhancing understanding and retention of study material.

**10. Which step in the rock cycle involves cooling magma?**

- A. Formation of Metamorphic Rock**
- B. Formation of Sedimentary Rock**
- C. Formation of Igneous Rock**
- D. Formation of Magma**

The cooling of magma is a fundamental process in the formation of igneous rock. When magma, which is molten rock beneath the Earth's surface, cools and solidifies, it transforms into igneous rock. This process can occur either below the Earth's surface, resulting in intrusive igneous rocks, or it can happen on the surface after a volcanic eruption, leading to the formation of extrusive igneous rocks. This step is crucial in the rock cycle as it demonstrates the transition of materials within the Earth, showing how magma changes state and contributes to the diversity of rock types. Understanding this transformation helps illustrate the dynamic nature of geological processes, where materials can be recycled and reformed over time. Other choices refer to different processes, such as the creation and alteration of other rock types, but cooling magma specifically points to the formation of igneous rock.

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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](mailto:hello@examzify.com).**

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

**<https://matesadmission.examzify.com>**

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

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