

# American Board of Orthodontics (ABO) Practice Exam (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

- 1. Which compartment is responsible for translation in the TMJ during jaw movement?**
  - A. Upper compartment**
  - B. Lower compartment**
  - C. Articular disc**
  - D. Coronoid process**
- 2. What is the most important dimension for TAD stability according to Marquezan?**
  - A. Length**
  - B. Width**
  - C. Height**
  - D. Angle**
- 3. At which SMI stage does the third finger proximal appear?**
  - A. 8**
  - B. 9**
  - C. 10**
  - D. 11**
- 4. What imaging technique is recognized as the gold standard for evaluating bony structures of the TMJ?**
  - A. Arthrography**
  - B. CT/Tomography**
  - C. MRI**
  - D. X-ray**
- 5. What effect does patient motion have on CBCT images?**
  - A. Increases detail**
  - B. Causes overexposure**
  - C. Reduces image sharpness**
  - D. Improves visualization of structures**

- 6. Which factor is less impactful in canine impaction according to recent studies?**
- A. Macro genetic effect**
  - B. Environmental factors**
  - C. Micro effect**
  - D. Dental hygiene**
- 7. What does the acronym RAP stand for in the context of orthodontics?**
- A. Regular activated phenomenon**
  - B. Regional acceleratory phenomenon**
  - C. Restructuring adaptive process**
  - D. Resonant angulation process**
- 8. What force can shift supragingival plaque lesions to infrabony lesions?**
- A. Extrusive force**
  - B. Intrusive force**
  - C. Tipping/intrusion force**
  - D. Rotational force**
- 9. What is the prevalence of Class I malocclusion as reported by Bishara?**
- A. 61.6%**
  - B. 34.3%**
  - C. 4.1%**
  - D. 50.0%**
- 10. Which of the following is NOT an etiological factor for obstructive sleep apnea (OSA)?**
- A. Neuromuscular tone issues**
  - B. Low hyoid position**
  - C. High hyoid position**
  - D. Obesity**



## **Answers**

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

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## **Explanations**

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**1. Which compartment is responsible for translation in the TMJ during jaw movement?**

- A. Upper compartment**
- B. Lower compartment**
- C. Articular disc**
- D. Coronoid process**

The upper compartment of the temporomandibular joint (TMJ) is responsible for translation during jaw movement. This compartment includes the glenoid fossa of the temporal bone and the articular disc. When the jaw opens, the condyle of the mandible moves forward and downwards within this upper compartment. This movement, known as translation, involves anterior and inferior movements of the condyle, which allows for greater mouth opening and movements like protrusion and retraction. In contrast, the lower compartment is involved primarily in hinge-like rotation of the mandible. This compartment allows for movements such as the initial opening and closing of the jaw, where the condyle rotates in the concavity of the articular disc. The articular disc itself acts as a cushion and facilitates smooth movement, but it does not account for translation as it is not a compartment but rather a structure within the TMJ. The coronoid process is an anatomical feature of the mandible that serves as a site for muscle attachment, but it does not play a direct role in the TMJ movements. Therefore, understanding the function of each component helps clarify the primary role that the upper compartment plays in translation during jaw movement.

**2. What is the most important dimension for TAD stability according to Marquezan?**

- A. Length**
- B. Width**
- C. Height**
- D. Angle**

The most important dimension for TAD (Temporary Anchorage Device) stability, according to Marquezan, is width. This focus on width is critical because the stability of TADs is significantly influenced by their contact surface area with the surrounding bone. A wider base ensures better distribution of forces and enhances the biomechanical support provided by the bony anchorage. This increased surface area minimizes the risk of loosening and enhances the overall retention of the device during treatment. In orthodontics, the anchorage provided by TADs is crucial for effective treatment outcomes. When TADs are adequately stabilized, they can withstand the forces applied during the orthodontic movement of teeth, making the width dimension vital for long-term success. This underscores the importance of considering the dimensions of TADs carefully during planning and placement to achieve optimal results in orthodontic therapies.

**3. At which SMI stage does the third finger proximal appear?**

- A. 8
- B. 9**
- C. 10
- D. 11

The appearance of the third finger's proximal phalanx is a specific developmental milestone in the assessment of skeletal maturity, often referred to in the context of the Smith-Magenis syndrome or similar studies involving skeletal development. This particular phalanx typically becomes visible at the ninth stage of maturity assessment. At this stage, skeletal maturity is evaluated primarily through radiographic analysis, particularly hand and wrist X-rays, which allow clinicians to visualize the stages of bone development. The emergence of specific bones, such as the proximal phalanx of the third finger, indicates growth and development progression. Understanding this timeline is crucial for orthodontists as it helps predict and plan for the growth spurts associated with treatment, especially in young patients. The ninth stage marks a transitional point where significant skeletal characteristics become apparent, thus aligning with the expected developmental patterns observed in pediatric patients. The identification of these milestones helps in assessing growth potential and the timing for interventions in orthodontic treatment planning.

**4. What imaging technique is recognized as the gold standard for evaluating bony structures of the TMJ?**

- A. Arthrography
- B. CT/Tomography**
- C. MRI
- D. X-ray

CT (Computed Tomography) is recognized as the gold standard for evaluating the bony structures of the temporomandibular joint (TMJ) because it provides high-resolution images that clearly demonstrate bone morphology and any potential pathological changes. CT scans can visualize the intricate details of bony anatomy, including the condyle, glenoid fossa, and other critical structures, which is essential for diagnosing conditions such as osteoarthritis, fractures, or other bony anomalies that may not be adequately assessed by other imaging modalities. While MRI is excellent for evaluating soft tissues, such as ligaments and cartilage, it does not deliver the same clarity or detail when it comes to bony structures. X-rays offer limited information and may not properly visualize the TMJ's complex anatomy. Though arthrography can provide some details, it primarily focuses on joint spaces and soft tissue rather than giving a comprehensive evaluation of bony structures. Thus, CT remains the preferred imaging technique for accurate assessment in clinical settings.

## 5. What effect does patient motion have on CBCT images?

- A. Increases detail
- B. Causes overexposure
- C. Reduces image sharpness**
- D. Improves visualization of structures

Patient motion during a Cone Beam Computed Tomography (CBCT) scan can lead to significant blurring, resulting in a reduction of image sharpness. When patients move while the imaging is taking place, the x-ray images taken are not precisely aligned, causing ghosting effects or motion artifacts. These artifacts make it difficult to discern fine details within the images, which can lead to challenges in diagnosis and treatment planning in orthodontics. In contrast to the other options, which suggest improvements or increases in image quality, the reality is that motion compromises the clarity and precision of the images, thereby affecting the overall quality of the diagnostically relevant information that can be obtained from the CBCT scan. Addressing patient movement is essential in obtaining high-quality imaging for effective orthodontic assessments.

## 6. Which factor is less impactful in canine impaction according to recent studies?

- A. Macro genetic effect**
- B. Environmental factors
- C. Micro effect
- D. Dental hygiene

The macro genetic effect is considered less impactful in canine impaction according to recent studies. Research indicates that while genetics can play a role in various orthodontic conditions, specific macro genetic factors—such as broader population genetics or familial predispositions—have not been shown to significantly contribute to the incidence of canine impaction. In contrast, environmental factors, micro effects, and dental hygiene are generally recognized as more influential. Environmental factors, like dental arch space and developmental issues, can directly affect the positioning of canines in their sockets. Micro effects, which involve localized genetic influences or variations affecting tooth formation and eruption, can also play a crucial role in whether canines become impacted. Additionally, dental hygiene practices are vital for overall oral health and can influence the positioning and health of the teeth. Thus, while genetics, in general, has a contribution, the specific impact of macro genetics is relatively minimal compared to these other factors.

**7. What does the acronym RAP stand for in the context of orthodontics?**

- A. Regular activated phenomenon**
- B. Regional acceleratory phenomenon**
- C. Restructuring adaptive process**
- D. Resonant angulation process**

The acronym RAP stands for Regional Acceleratory Phenomenon. This term describes the biological response of the bone to orthodontic tooth movement. When teeth are moved, the surrounding bone undergoes a remodeling process that is accelerated in the areas adjacent to the moving teeth. This phenomenon is significant in orthodontics because it helps clinicians understand how to better manage tooth movement and the associated biological processes. The Regional Acceleratory Phenomenon involves enhanced local blood flow, increased osteoclast and osteoblast activity, and a quicker healing response in the localized area around the teeth undergoing movement. Recognizing this phenomenon allows orthodontists to predict and potentially optimize treatment durations and outcomes based on the patient's individual response to orthodontic forces. Other terms, while they may seem plausible, do not accurately reflect this specific biological process as RAP does. By focusing on the accelerated nature of the bone response, orthodontists can design more effective treatment plans that take advantage of this phenomenon.

**8. What force can shift supragingival plaque lesions to infrabony lesions?**

- A. Extrusive force**
- B. Intrusive force**
- C. Tipping/intrusion force**
- D. Rotational force**

The transformation of supragingival plaque lesions into infrabony lesions is primarily driven by the kinds of mechanical forces applied to the teeth and surrounding tissues. The tipping or intrusion force is particularly effective in this context because it directs the movement of teeth in such a way that allows for the displacement of the supporting bone and periodontal tissues. When an intrusive force is applied, it tends to lead the tooth downwards into the alveolar bone, which can create a condition where the bone and tissues above become compromised. This movement of the tooth and its subsequent effect on the marginal bone can promote the migration of plaque and other irritants from the gingival margin into the infrabony pockets, providing a gateway for the development of more severe periodontal issues. Intrusion is a specific type of movement that not only focuses on displacing the apex of the tooth but also can contribute to changes in the overall periodontal attachment, which further encourages the formation of infrabony lesions. Since supragingival plaque relies on the more superficial structures for retention and adhesion, moving the tooth into the bone facilitates deeper penetration and increases the risk of loss of support and the establishment of infrabony lesions. Therefore, understanding how these forces function is crucial in periodontal therapy and orthodontic treatment.

**9. What is the prevalence of Class I malocclusion as reported by Bishara?**

- A. 61.6%**
- B. 34.3%**
- C. 4.1%**
- D. 50.0%**

The prevalence of Class I malocclusion, as reported by Bishara, highlights that a significant portion of the population exhibits this type of occlusion, which is characterized by the normal interdigitation of molars with slight variations in the alignment of teeth. Class I malocclusion is considered the most common occlusion and serves as a baseline for understanding orthodontic conditions. In the study referenced, Bishara determined that approximately 61.6% of the population presents with Class I, reflecting its widespread occurrence. In contrast, the other reported percentages correspond to lower prevalence rates of different types of malocclusions, indicating that Class I is the most frequently observed. Understanding this prevalence is crucial for orthodontic diagnosis and treatment planning, as it sets the stage for recognizing and addressing more complex malocclusions.

**10. Which of the following is NOT an etiological factor for obstructive sleep apnea (OSA)?**

- A. Neuromuscular tone issues**
- B. Low hyoid position**
- C. High hyoid position**
- D. Obesity**

The presence of a high hyoid position is generally not considered an etiological factor for obstructive sleep apnea (OSA). Instead, it is often associated with a better airway status. The hyoid bone plays a critical role in the positioning of the airway structures; when it is positioned higher, it can contribute to maintaining an open airway during sleep, thus reducing the likelihood of obstruction. Conversely, factors like neuromuscular tone issues, a low hyoid position, and obesity have been more widely recognized as contributing to OSA. Neuromuscular tone issues can lead to inadequate support of the upper airway, making it more susceptible to collapse during sleep. A low hyoid position is typically associated with a narrower airway and a higher risk of obstruction. Obesity contributes to OSA due to increased fat deposition in the neck and around the airway, which can narrow the airway and increase the likelihood of airway collapse during sleep. Understanding these relationships is crucial for accurately diagnosing and managing OSA in patients.



## 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://abo-orthodontics.examzify.com>**

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