

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

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- 1. What defines a meta-analysis?**
 - A. A qualitative review of literature**
 - B. A systematic literature search**
 - C. A review using statistics to summarize multiple studies**
 - D. A comparison of two studies**

- 2. According to Moss, what constitutes a skeletal unit?**
 - A. Muscles and nerves**
 - B. Bone, cartilage, or tendons**
 - C. Soft tissues and gums**
 - D. Fat and glands**

- 3. What is a critical point to consider in Class III furcation treatment?**
 - A. It requires limited attention**
 - B. Membrane regeneration is effective**
 - C. Special attention is needed as ortho can make it worse**
 - D. Immediate extraction is often necessary**

- 4. Renal wasting from hyperparathyroidism causes which condition?**
 - A. Hypercalcemia**
 - B. Hypocalcemia**
 - C. Hypophosphatemia**
 - D. Hyperphosphatemia**

- 5. Which of the following is the most important factor for TAD stability?**
 - A. Length of the TAD**
 - B. Width of the TAD**
 - C. Placement angle of the TAD**
 - D. Bone quality at the placement site**

- 6. What is the result of the mandibular molar passive extrusion in the context of orthodontic treatment?**
- A. Promotes bite closure**
 - B. Allows for maxillary expansion**
 - C. Leads to occlusal discrepancies**
 - D. Has no effect on closure**
- 7. What characteristic is typically observed in Class I, II, and III patients with a high mandibular angle?**
- A. Narrow/thin alveolus around mandibular incisors**
 - B. Wide alveolus around mandibular incisors**
 - C. Thick alveolus on maxillary incisors**
 - D. Normal alveolus width**
- 8. What type of reaction is associated with foreign bodies like silicon or PTFE implants?**
- A. Granulomatous reaction**
 - B. Giant cell reaction**
 - C. Fibrous reaction**
 - D. Inflammatory reaction**
- 9. What term describes the reduced rate at which bone is broken down in the body?**
- A. Bone resorption**
 - B. Bone deposition**
 - C. Bone remodeling**
 - D. Bone turnover**
- 10. Which systemic condition is most commonly associated with delayed tooth eruption?**
- A. Diabetes mellitus**
 - B. Endocrine disorders**
 - C. Anemia**
 - D. Renal failure**

Answers

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

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Explanations

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1. What defines a meta-analysis?

- A. A qualitative review of literature
- B. A systematic literature search
- C. A review using statistics to summarize multiple studies**
- D. A comparison of two studies

A meta-analysis is best defined as a review that utilizes statistical methods to summarize and synthesize the results from multiple studies. This approach allows researchers to integrate findings from various pieces of research, providing a more comprehensive understanding of a particular question or clinical issue. By statistically analyzing the combined data, a meta-analysis can identify trends, differences, and overall effects that may not be apparent in individual studies. The importance of this method lies in its ability to enhance the power of research conclusions. By pooling data, a meta-analysis can clarify conflicting results among individual studies and increase the reliability of findings. The rigor of statistical analysis also aids in evaluating the effect size and the consistency of outcomes across different populations or interventions, making the conclusions drawn from a meta-analysis more robust than those from a single study.

2. According to Moss, what constitutes a skeletal unit?

- A. Muscles and nerves
- B. Bone, cartilage, or tendons**
- C. Soft tissues and gums
- D. Fat and glands

A skeletal unit is defined as a structural entity within the skeletal system that includes all the components necessary for its integrity and function. According to Moss, this encompasses bone, cartilage, and tendons, which play critical roles in the support, movement, and overall framework of the body. Bone provides the rigid structure and support necessary for protecting organs and enabling movement. Cartilage serves as a flexible connective tissue that cushions joints and helps in the growth and development of bones. Tendons attach muscles to bones, allowing for the transfer of force needed for movement. This comprehensive view aligns well with the understanding of how the skeletal system operates as an integrated unit, providing function and stability. The other options, while related to bodily functions, do not encapsulate the primary components that constitute a skeletal unit as defined in the context of Moss's work. Muscles and nerves focus more on movement and signaling rather than structural support. Soft tissues and gums relate primarily to the oral environment, while fat and glands pertain more to metabolic and endocrine functions. Therefore, the selection of bone, cartilage, and tendons as components of a skeletal unit correctly embodies the fundamental elements of the skeletal structure.

3. What is a critical point to consider in Class III furcation treatment?

- A. It requires limited attention**
- B. Membrane regeneration is effective**
- C. Special attention is needed as ortho can make it worse**
- D. Immediate extraction is often necessary**

In the context of Class III furcation treatment, it is crucial to understand the implications of orthodontic intervention. Class III furcations indicate significant loss of periodontal attachment and bone in the interradicular area of a molar tooth, which can compromise the stability and health of the tooth. If orthodontic forces are applied without careful consideration, there is a risk that these forces could exacerbate the mobility and periodontal status of the involved tooth. By acknowledging that specific extra care is needed, dental professionals can take preventative measures to avoid worsening the condition. This includes thorough assessments of the periodontal architecture before proceeding with orthodontic treatment, ensuring that any orthodontic movements do not further compromise the periodontal attachment. Other treatment options might involve periodontal therapy or possibly extraction, but the critical realization that orthodontics can negatively impact the furcation area underscores the need for specialized attention to the condition.

4. Renal wasting from hyperparathyroidism causes which condition?

- A. Hypercalcemia**
- B. Hypocalcemia**
- C. Hypophosphatemia**
- D. Hyperphosphatemia**

Renal wasting from hyperparathyroidism leads to hypophosphatemia due to the way parathyroid hormone (PTH) interacts with renal function. In hyperparathyroidism, elevated levels of PTH result in increased renal excretion of phosphate. This occurs because PTH reduces the reabsorption of phosphate in the proximal tubules of the kidneys, leading to a loss of phosphate in the urine. As phosphate is wasted, the serum levels of phosphate decrease, resulting in hypophosphatemia. The relationship between elevated PTH and phosphate levels is critical for understanding the metabolic consequences of hyperparathyroidism. While hyperparathyroidism indeed causes hypercalcemia due to increased calcium release from bones and increased intestinal absorption and renal reabsorption of calcium, the direct connection to renal phosphate wasting is what specifically results in hypophosphatemia. This distinction helps clarify how the endocrine regulation of calcium and phosphate is intricately linked in this condition.

5. Which of the following is the most important factor for TAD stability?

- A. Length of the TAD**
- B. Width of the TAD**
- C. Placement angle of the TAD**
- D. Bone quality at the placement site**

The most important factor for TAD stability is the quality of the bone at the placement site. This is critical because the stability and retention of Temporary Anchorage Devices (TADs) are highly dependent on how well they interact with the surrounding bone. High-quality bone provides greater density and strength, allowing the TAD to achieve a more secure anchorage. When TADs are placed in areas with poor bone quality, such as areas with low density or compromised integrity, there is a higher risk of micromovement, failure, or even loss of the TAD altogether. Adequate bone quality ensures that the TAD can achieve optimal primary stability immediately after placement, which is essential for their effectiveness in orthodontic treatment. Other factors, such as the length, width, and placement angle of the TAD, can influence stability, but these are often secondary to the fundamental necessity of ensuring that the TAD is placed in good-quality bone. If the bone quality is poor, no amount of modifications to the TAD's dimensions or angle can compensate for the lack of adequate stability that results from the surrounding bone condition.

6. What is the result of the mandibular molar passive extrusion in the context of orthodontic treatment?

- A. Promotes bite closure**
- B. Allows for maxillary expansion**
- C. Leads to occlusal discrepancies**
- D. Has no effect on closure**

The result of mandibular molar passive extrusion in orthodontic treatment is associated with leading to occlusal discrepancies. Passive extrusion refers to the movement of a tooth in the occlusal direction without active force applied to it. When mandibular molars undergo passive extrusion, they may become misaligned with adjacent teeth and the opposing maxillary teeth due to altered occlusal relationships. This misalignment can create discrepancies in the overall bite, leading to issues such as interference during occlusion and an imbalance in the dental arch relationships. In the context of orthodontics, maintaining proper occlusion is crucial for functional and aesthetic outcomes. Passive extrusion can disrupt this balance, causing further complications in the treatment plan or affecting the patient's ability to occlude properly. Therefore, understanding the implications of passive extrusion on occlusal relationships is important for effective orthodontic management.

7. What characteristic is typically observed in Class I, II, and III patients with a high mandibular angle?

- A. Narrow/thin alveolus around mandibular incisors**
- B. Wide alveolus around mandibular incisors**
- C. Thick alveolus on maxillary incisors**
- D. Normal alveolus width**

In Class I, II, and III patients with a high mandibular angle, the characteristic observed is a narrow or thin alveolus around the mandibular incisors. This feature can be attributed to the relationship between the mandibular skeletal structure and the dentoalveolar components in these patients. A high mandibular angle is often associated with certain dental or skeletal traits that lead to a more acute angulation of the mandible. This altered growth pattern influences the development of the alveolar bone, typically resulting in a narrower supporting structure around the mandibular incisors. The thinness of the alveolus can contribute to stability issues and potentially affect periodontal health, leading to concerns in orthodontic treatment planning. In contrast, a wide alveolus around the mandibular incisors, a thick alveolus on the maxillary incisors, or a normal alveolus width would not typically be associated with a high mandibular angle. These alternatives do not reflect the morphological changes seen in patients exhibiting the specific skeletal trait of an increased mandibular angle.

8. What type of reaction is associated with foreign bodies like silicon or PTFE implants?

- A. Granulomatous reaction**
- B. Giant cell reaction**
- C. Fibrous reaction**
- D. Inflammatory reaction**

The association of foreign bodies such as silicone or PTFE (polytetrafluoroethylene) implants predominantly leads to a giant cell reaction. This type of response occurs due to the body's immune system recognizing these materials as foreign. When large particles or materials cannot be effectively phagocytized by the usual macrophages, they stimulate the formation of multinucleated giant cells. These giant cells arise from the fusion of macrophages in a concerted effort to encircle and attempt to eliminate the foreign material. Giant cell reactions are particularly characteristic in the presence of materials that elicit a chronic inflammatory response, which is common with inert substances like silicone and PTFE. The formation of these cells signifies an ongoing process where the immune system attempts to isolate and manage the foreign body, showcasing the balance between inflammatory and fibrotic responses in tissue integration and repair strategies.

9. What term describes the reduced rate at which bone is broken down in the body?

- A. Bone resorption**
- B. Bone deposition**
- C. Bone remodeling**
- D. Bone turnover**

The term that describes the reduced rate at which bone is broken down in the body is bone resorption. This process involves the removal of minerals and collagen fibers from bone by specialized cells called osteoclasts, leading to a decrease in bone mass. When the rate of bone resorption is reduced, it indicates that the body is retaining more bone tissue than it is losing, contributing to stronger bones and overall skeletal health. In contrast, bone deposition refers to the process where new bone is formed by osteoblasts. Bone remodeling encompasses both bone resorption and deposition, representing the continuous cycle of bone turnover. While bone turnover involves the balance between resorption and deposition, the specific reduction in the breakdown of bone points to bone resorption as the focal term in this context.

10. Which systemic condition is most commonly associated with delayed tooth eruption?

- A. Diabetes mellitus**
- B. Endocrine disorders**
- C. Anemia**
- D. Renal failure**

Delays in tooth eruption can be influenced by various systemic conditions, but endocrine disorders are particularly significant in their impact on this process. Endocrine glands regulate numerous bodily functions, including growth and development. Conditions such as hypothyroidism and adrenal insufficiency can disrupt normal hormonal levels, which in turn affect the timing of various physiological processes, including the eruption of teeth. In the case of hypothyroidism, for example, there is generally a delay in skeletal growth and maturation, which extends to dental development. Furthermore, hormonal imbalances that arise from endocrine disorders can alter the normal growth patterns of both the dental and skeletal systems. While diabetes mellitus, anemia, and renal failure can also play roles in delaying tooth eruption, they are not as directly correlated with dental development timing as endocrine disorders. Diabetes may lead to poor overall health affecting dental structures, anemia can influence bone density and health, and renal failure is often associated with other complications that can indirectly affect dental health, but the primary mechanism for a direct delay in eruption is predominantly linked to the disruption of hormonal pathways found in endocrine disorders.

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://abo-orthodontics.examzify.com>

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

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