

ABC Orthotic & Prosthetic 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 formula represents the cranial index?**
 - A. Length/Width*100**
 - B. Width/Length*200**
 - C. Width/Length*100**
 - D. Length/Width*50**

- 2. What is the maximum degree of knee flexion expected during the swing phase of gait?**
 - A. 90 degrees**
 - B. 80 degrees**
 - C. 70 degrees**
 - D. 60 degrees**

- 3. What is the angle of dorsiflexion/plantarflexion at heel strike?**
 - A. 90 degrees (0 DF and 0 PF)**
 - B. 45 degrees (15 DF and 30 PF)**
 - C. 30 degrees (20 DF and 10 PF)**
 - D. 0 degrees (100 DF and 0 PF)**

- 4. According to Medicare, within how many months must diabetic shoes and inserts be fit from the original visit?**
 - A. Three months**
 - B. Six months**
 - C. Nine months**
 - D. One year**

- 5. What are the two anterior channel deficits in a double action ankle joint?**
 - A. Crouching and knee instability**
 - B. Foot drop and hyperextension**
 - C. Hip flexion and foot drop**
 - D. Heel strike and toe off**

- 6. What are infection control practices that prevent disease transmission through contact with blood and bodily fluids referred to as?**
- A. Standard procedures**
 - B. Protective measures**
 - C. Standard Precautions**
 - D. Universal precautions**
- 7. What is required for a custom-molded shoe?**
- A. Constructed over positive model of patient's foot, has closure, made from leather or similar**
 - B. Standard shoe size fitting, made from synthetic material, and laces required**
 - C. Pre-formed design, lightweight, and removable heel supports**
 - D. Requires a color selection option, made from eco-friendly material, and slip-on design**
- 8. Which of the following would likely cause adhesive capsulitis?**
- A. Overuse injuries**
 - B. Repetitive overhead activity**
 - C. Post-surgical immobilization**
 - D. Tight ligaments**
- 9. Which muscles are part of the radial deviators?**
- A. Flexor carpi ulnaris and extensor carpi ulnaris**
 - B. Extensor carpi radialis brevis, extensor carpi radialis longus, and flexor carpi radialis**
 - C. Flexor digitorum profundus and flexor digitorum superficialis**
 - D. Palmaris longus and abductor pollicis longus**
- 10. What characterizes avascular necrosis?**
- A. Excessive blood supply to the femoral head**
 - B. Decrease in active range of motion in hip flexion**
 - C. Fluid accumulation in the joint**
 - D. Increased mobility of the hip joint**

Answers

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

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Explanations

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1. Which formula represents the cranial index?

- A. Length/Width*100
- B. Width/Length*200
- C. Width/Length*100**
- D. Length/Width*50

The cranial index is a measurement used to classify head shapes based on the proportion of the width to the length of the skull. It specifically aims to assess the relative width of the head to its length, which is particularly relevant in fields such as anthropology, cranial surgery, and orthodontics. When defining the cranial index, the formula used is the width of the head divided by its length, then multiplied by 100 to express the result as a percentage. This standardization allows for easy comparison across different individuals or populations. By using the formula of width divided by length and then multiplying the result by 100, you derive the cranial index, which provides a straightforward way to categorize skull shapes, where values above or below specific thresholds can indicate variations in head shape that may be of interest in both clinical and research settings. This understanding is crucial for practitioners in orthotics and prosthetics as it informs their approach to head and facial fitting techniques, especially in pediatric populations or when addressing conditions that affect cranial development.

2. What is the maximum degree of knee flexion expected during the swing phase of gait?

- A. 90 degrees
- B. 80 degrees
- C. 70 degrees**
- D. 60 degrees

The maximum degree of knee flexion during the swing phase of gait is typically around 60 to 90 degrees, depending on individual variability and specific scenarios such as walking speed and the surface being traversed. While this flexibility in the knee is necessary for appropriate limb clearance during the swing phase, it is generally accepted that the average maximum knee flexion that is observed is about 70 degrees. This degree of flexion allows the leg to move forward without dragging on the ground, ensuring a smooth and efficient gait. Effective knee flexion during the swing phase is critical for both functional mobility and the prevention of fall risk, as it aids in the overall coordination and rhythm of walking. In contrast, the other choices may represent less commonly observed flexion and could limit efficient walking mechanics. Having too little knee flexion (such as what's suggested by the lower options) might result in difficulties in limb clearance, which can lead to tripping or falling. Thus, the correct understanding of knee flexion in this context emphasizes the need for sufficient mobility during the swing phase, corroborating why 70 degrees is a plausible and expected measurement in typical gait analysis.

3. What is the angle of dorsiflexion/plantarflexion at heel strike?

- A. 90 degrees (0 DF and 0 PF)**
- B. 45 degrees (15 DF and 30 PF)**
- C. 30 degrees (20 DF and 10 PF)**
- D. 0 degrees (100 DF and 0 PF)**

At heel strike, the position of the ankle is typically close to a neutral position, which is often quantified as approximately 90 degrees. This reflects a state where there is no significant dorsiflexion (DF) or plantarflexion (PF), indicating that the ankle is aligned and ready for initial contact with the ground. During the gait cycle, neutral ankle positioning at heel strike allows for efficient loading and facilitates the transition into the next phase of gait. At this specific moment, the foot is preparing to absorb impact and transition into loading response, making a neutral ankle position advantageous for stability and support. Understanding that this neutral position is critical for effective biomechanics helps clarify the importance of the angle of dorsiflexion and plantarflexion at heel strike during walking or running activities.

4. According to Medicare, within how many months must diabetic shoes and inserts be fit from the original visit?

- A. Three months**
- B. Six months**
- C. Nine months**
- D. One year**

The correct answer is that diabetic shoes and inserts must be fit within six months from the original visit, according to Medicare guidelines. This timeframe is crucial because it aligns with the intention of providing timely care for individuals with diabetes, who are at higher risk for foot complications. The six-month period ensures that patients receive appropriate fitting and adjustments to their footwear to help prevent issues such as ulcers or infections that can arise from poorly fitting shoes. In diabetic care, especially concerning foot health, timely intervention is essential to mitigate complications. The six-month regulation helps streamline the fitting process, encouraging patients to follow through with the necessary evaluations and fittings in a reasonable timeframe. This aspect is critical as it relates to the overall management of diabetic patients, focusing on preventive care and maintaining mobility.

5. What are the two anterior channel deficits in a double action ankle joint?

- A. Crouching and knee instability**
- B. Foot drop and hyperextension**
- C. Hip flexion and foot drop**
- D. Heel strike and toe off**

In the context of a double action ankle joint, understanding the potential deficits in anterior channel movement is crucial. The correct answer highlights crouching and knee instability as the two deficits that can occur. Crouching generally refers to a posture that individuals may adopt to compensate for instability in the knee, leading to a more flexed position when standing or walking. This position may arise due to weakness or instability in the knee joint, which can happen when the anterior channels of the double action ankle joint do not provide adequate support or movement, especially during phases of gait. Knee instability is typically observed when there is inadequate support from surrounding structures, including the ankle joint. In a double action ankle joint, the lack of proper interaction between the ankle and knee can lead to difficulty in stabilizing the knee during activities such as walking, running, or descending stairs. As a result, without proper stabilization from the anterior channels, an individual may experience knee buckling or an inability to maintain an upright posture, resulting in crouching. The other options presented do not align appropriately with the deficits specific to the anterior channels of a double action ankle joint. For instance, while foot drop could be an issue influenced by other components of the ankle or neurological conditions, it does not

6. What are infection control practices that prevent disease transmission through contact with blood and bodily fluids referred to as?

- A. Standard procedures**
- B. Protective measures**
- C. Standard Precautions**
- D. Universal precautions**

The term "Standard Precautions" refers to infection control practices designed to prevent the transmission of diseases through contact with blood and bodily fluids. These protocols are essential in healthcare settings to ensure that all patients are treated as if they may carry infectious agents, regardless of their known or apparent infection status. This comprehensive approach includes hand hygiene, the use of personal protective equipment (PPE), proper handling of sharps, and effective isolation practices. Standard Precautions are vital for minimizing the risk of infection not only for healthcare workers but also for patients. The adoption of these measures helps to create a safer environment by standardizing practices across various interactions with different patients, thus significantly reducing the potential for cross-contamination and disease spread. This concept evolved from the earlier idea of "Universal Precautions," which specifically focused on blood and certain bodily fluids. While Universal Precautions laid the foundation, Standard Precautions have broadened the scope to include all potential sources of infection. Hence, understanding and implementing Standard Precautions is critical for healthcare professionals in their daily practice.

7. What is required for a custom-molded shoe?

- A. Constructed over positive model of patient's foot, has closure, made from leather or similar**
- B. Standard shoe size fitting, made from synthetic material, and laces required**
- C. Pre-formed design, lightweight, and removable heel supports**
- D. Requires a color selection option, made from eco-friendly material, and slip-on design**

A custom-molded shoe is specifically designed to accommodate the unique contours and requirements of an individual's foot. This customization process involves creating a shoe that is constructed over a positive model of the patient's foot, ensuring a perfect fit and optimal comfort. The use of closures provides adjustability, which is particularly important in managing conditions that may affect the shape and volume of the foot. Additionally, materials like leather or similar options are typically chosen because they offer durability, breathability, and support. In contrast, the characteristics described in the other options do not align with the specific needs of a custom-molded shoe. Standard shoe sizing, synthetic materials, and features like pre-formed designs or color selection do not provide the individualized support and fit necessary for patients who require custom orthotic solutions.

8. Which of the following would likely cause adhesive capsulitis?

- A. Overuse injuries**
- B. Repetitive overhead activity**
- C. Post-surgical immobilization**
- D. Tight ligaments**

Adhesive capsulitis, commonly known as frozen shoulder, often arises from situations where the shoulder joint experiences a lack of movement or has been immobilized for an extended period. Post-surgical immobilization is particularly significant because after surgery, it is common for patients to restrict their shoulder movements to allow healing. This immobilization can lead to the thickening and tightening of the shoulder capsule, contributing directly to adhesive capsulitis. This condition results when the connective tissues surrounding the shoulder joint become inflamed and stiff, making it increasingly difficult to move the shoulder. The immobilization period sets the stage for this stiffening process, which is why it's a key factor in the development of adhesive capsulitis. In contrast, while overuse injuries, repetitive overhead activities, and tight ligaments may contribute to shoulder problems, they do not directly cause the same degree of immobilization and resultant capsule thickening that is characteristic of adhesive capsulitis. Therefore, these factors are less likely to be the primary cause of this specific condition compared to post-surgical immobilization.

9. Which muscles are part of the radial deviators?

- A. Flexor carpi ulnaris and extensor carpi ulnaris
- B. Extensor carpi radialis brevis, extensor carpi radialis longus, and flexor carpi radialis**
- C. Flexor digitorum profundus and flexor digitorum superficialis
- D. Palmaris longus and abductor pollicis longus

The radial deviators of the wrist include the extensor carpi radialis brevis, extensor carpi radialis longus, and flexor carpi radialis. These muscles work together to facilitate radial deviation, which is the movement of the wrist towards the thumb side (the radial side) of the forearm. The extensor carpi radialis longus and extensor carpi radialis brevis are located on the posterior side of the forearm and play a crucial role in extending and radially deviating the wrist. The flexor carpi radialis, located on the anterior side of the forearm, contributes to flexion of the wrist as well as radial deviation. Together, these muscles effectively coordinate to achieve the motion of moving the wrist toward the radial side. Understanding the role of these muscles is important for clinical practice in orthotics and prosthetics, as weakness or injury in these muscles can impact wrist motion and stability, affecting overall hand function.

10. What characterizes avascular necrosis?

- A. Excessive blood supply to the femoral head
- B. Decrease in active range of motion in hip flexion**
- C. Fluid accumulation in the joint
- D. Increased mobility of the hip joint

Avascular necrosis, also known as osteonecrosis, occurs when there is a loss of blood supply to the bone, leading to the death of bone tissue. This condition is often characterized by a decrease in active range of motion, particularly in the hip joint. As the femoral head becomes necrotic, pain and stiffness develop, which can significantly restrict movement and flexibility in joint function. In this context, the decrease in active range of motion in hip flexion especially reflects the effects of pain or joint damage caused by avascular necrosis. The lack of blood flow exacerbates these issues, leading to further deterioration of the joint mechanics over time. The other options do not align with the typical characteristics of avascular necrosis. An excessive blood supply would counteract the condition, while fluid accumulation typically indicates inflammation or other joint pathologies rather than avascular necrosis. Increased mobility of the hip joint is also contrary to what is commonly observed, as the condition usually leads to stiffness rather than enhanced flexibility.

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://abcorthoticprosthetic.examzify.com>

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