

CMTBC Registration 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. What is the correct order of flow through a lymph node?**
 - A. Efferent vessel, medullary sinus, trabecular sinus, subscapular sinus, afferent vessel**
 - B. Afferent lymphatic vessel, subscapular sinus, trabecular sinus, medullary sinus, efferent lymphatic vessel**
 - C. Subscapular sinus, trabecular sinus, efferent vessel, medullary sinus, afferent vessel**
 - D. Medullary sinus, afferent vessel, trabecular sinus, subscapular sinus, efferent lymphatic vessel**
- 2. What neuropathy might be suspected if a positive response is obtained with the Empty Can/Jobe Test?**
 - A. Median Nerve Lesion**
 - B. Radial Nerve Lesion**
 - C. Suprascapular Nerve Lesion**
 - D. Ulnar Nerve Lesion**
- 3. Where should the therapist focus treatment for a patient presenting with Golfer's elbow?**
 - A. Medial Epicondyle/CFT**
 - B. Lateral Epicondyle**
 - C. Distal Radius**
 - D. Proximal Humerus**
- 4. Which test will reproduce or intensify symptoms in a patient with sensory loss in the little finger and functional loss in the thumb adduction?**
 - A. Direct pressure over pisohamate**
 - B. Flexion of the wrist**
 - C. Palpation of the median nerve**
 - D. Active range of motion of the thumb**

- 5. Which thoracic outlet assessment is appropriate for a student with numbness in their arms from a heavy backpack?**
- A. Hyperabduction of the test shoulder arm (Wright's test)**
 - B. Shoulder drawn down and back (costoclavicular syndrome test)**
 - C. Lateral rotation of head to test shoulder and neck extension (Adson's maneuver)**
 - D. Lateral rotation of head to opposite test shoulder and neck extension (Halstead maneuver)**
- 6. What grade of Dupuytren's Contracture is classified as a "flexion contracture"?**
- A. Grade 1**
 - B. Grade 2**
 - C. Grade 3**
 - D. Grade 4**
- 7. What type of tissue comprises tendons?**
- A. Loose connective tissue**
 - B. Dense regular connective tissue**
 - C. Adipose tissue**
 - D. Epithelial tissue**
- 8. What is the primary role of the electron transport chain?**
- A. Fatty acid synthesis**
 - B. ATP production**
 - C. Protein synthesis**
 - D. Carbohydrate breakdown**
- 9. Which nerve palsy results in Bishop's Hand deformity?**
- A. Median Nerve**
 - B. Ulnar Nerve**
 - C. Radial Nerve**
 - D. Musculocutaneous Nerve**

10. Which fingers are most often affected by Trigger Finger?

- A. 1st and 2nd**
- B. 3rd and 4th**
- C. 4th and 5th**
- D. 2nd and 5th**

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Answers

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

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Explanations

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1. What is the correct order of flow through a lymph node?

- A. Efferent vessel, medullary sinus, trabecular sinus, subscapular sinus, afferent vessel
- B. Afferent lymphatic vessel, subscapular sinus, trabecular sinus, medullary sinus, efferent lymphatic vessel**
- C. Subscapular sinus, trabecular sinus, efferent vessel, medullary sinus, afferent vessel
- D. Medullary sinus, afferent vessel, trabecular sinus, subscapular sinus, efferent lymphatic vessel

The correct order of flow through a lymph node begins with the afferent lymphatic vessel, which carries lymph into the node. This flow continues through the subscapular sinus, where lymph first accumulates within the node's outer region. The lymph then moves into the trabecular sinus, which is located in the deeper regions of the node, facilitating further filtration and interaction with immune cells. Following this, lymph enters the medullary sinus, the innermost area where additional immune responses can occur. Finally, the lymph exits the lymph node through the efferent lymphatic vessel, continuing its journey through the lymphatic system. Understanding the flow through a lymph node is essential for grasping how lymphatic fluid is filtered and how immune responses are activated, highlighting the node's role in the immune system. Each step in this pathway is critical for ensuring that pathogens and debris are properly managed, illustrating the sequential organization within the lymphatic system that supports effective immune function.

2. What neuropathy might be suspected if a positive response is obtained with the Empty Can/Jobe Test?

- A. Median Nerve Lesion
- B. Radial Nerve Lesion
- C. Suprascapular Nerve Lesion**
- D. Ulnar Nerve Lesion

The Empty Can/Jobe Test is specifically designed to assess the integrity of the supraspinatus muscle, which is innervated by the suprascapular nerve. A positive response to this test typically indicates weakness or pain when the arm is in abduction and internal rotation, which suggests that the supraspinatus muscle is not functioning properly. This is often due to a problem with the suprascapular nerve that supplies the muscle. In circumstances where the test is positive, it points toward a lesion or dysfunction of the suprascapular nerve, indicating that further investigation of the shoulder's rotator cuff and associated nerves may be necessary. The design of the test specifically targets the muscles responsible for shoulder abduction, making it a reliable indicator for issues related to the suprascapular nerve.

3. Where should the therapist focus treatment for a patient presenting with Golfer's elbow?

A. Medial Epicondyle/CFT

B. Lateral Epicondyle

C. Distal Radius

D. Proximal Humerus

Focusing treatment on the medial epicondyle and the common flexor tendon (CFT) is crucial for a patient presenting with golfer's elbow, also known as medial epicondylitis. This condition commonly arises from repetitive stress to the forearm flexors, which are attached to the medial epicondyle of the humerus, leading to pain and inflammation in this specific area. In treating golfer's elbow, the therapist aims to reduce pain and inflammation at the medial epicondyle while also addressing any dysfunction in the forearm flexor muscles. This typically involves techniques like rest, ice, stretching, strengthening exercises targeting the flexors, and manual therapy to alleviate tension in the surrounding structures. By directly addressing the site of pain and the involved musculature, the treatment plan becomes more effective in promoting healing and restoring function. Considering the other areas mentioned, such as the lateral epicondyle and distal radius, these are more relevant to conditions like tennis elbow and wrist injuries, respectively, which are not the focus for a golfer's elbow diagnosis. The proximal humerus is also not involved directly in this condition, as golfer's elbow primarily revolves around the stresses and injuries related to the muscular attachments at the medial epicondyle.

4. Which test will reproduce or intensify symptoms in a patient with sensory loss in the little finger and functional loss in the thumb adduction?

A. Direct pressure over pisohamate

B. Flexion of the wrist

C. Palpation of the median nerve

D. Active range of motion of the thumb

The test that reproduces or intensifies symptoms in a patient experiencing sensory loss in the little finger and functional loss in thumb adduction is direct pressure over the pisohamate. This area is associated with the ulnar nerve, which supplies sensation to the little finger and contributes to intrinsic muscle function in the hand, including the adductor muscle for the thumb. When direct pressure is applied over the pisohamate, it can exacerbate symptoms related to ulnar nerve compression or irritation, leading to an increase in sensory loss in the little finger and impacting thumb adduction. This makes it a valuable test for identifying issues related to the ulnar nerve in clinical assessments. The other choices do not specifically address the symptoms of sensory loss in the little finger and functional loss in thumb adduction related to the ulnar nerve's involvement. Wrist flexion could potentially irritate the median or ulnar nerves but doesn't specifically focus on the symptoms mentioned. Palpation of the median nerve primarily assesses median nerve integrity, which is not directly related to little finger sensory loss. Lastly, active range of motion of the thumb focuses on joint movement and might not effectively reproduce the specific symptoms of nerve involvement in this case.

5. Which thoracic outlet assessment is appropriate for a student with numbness in their arms from a heavy backpack?
- A. Hyperabduction of the test shoulder arm (Wright's test)
 - B. Shoulder drawn down and back (costoclavicular syndrome test)**
 - C. Lateral rotation of head to test shoulder and neck extension (Adson's maneuver)
 - D. Lateral rotation of head to opposite test shoulder and neck extension (Halstead maneuver)

The appropriate assessment for a student experiencing numbness in their arms due to a heavy backpack is the test that involves drawing the shoulder down and back, known as the costoclavicular syndrome test. This assessment is relevant in evaluating thoracic outlet syndrome, particularly since one common cause of symptoms is compression at the costoclavicular space, which can be exacerbated by the weight of a heavy backpack. In this context, the mechanism is that the heavy backpack may lead to tightness or muscle overuse in the surrounding structures, potentially compressing the neurovascular bundle traveling through the thoracic outlet. Conducting this assessment aids in determining whether the symptoms are related to such compression, as it directly affects the relationship between the clavicle and the first rib, where vessels and nerves can be compressed. Other assessments listed may also explore thoracic outlet syndrome, but they do not specifically target the type of compression symptoms that are likely present in this scenario related to the weight of the backpack. Thus, the costoclavicular syndrome test provides a focused approach to understanding the student's symptoms in relation to their recent activities and physical load.

6. What grade of Dupuytren's Contracture is classified as a "flexion contracture"?
- A. Grade 1
 - B. Grade 2
 - C. Grade 3**
 - D. Grade 4

Dupuytren's Contracture is a condition that causes the fingers to bend towards the palm due to thickening and shortening of the connective tissue in the hand. The grading system for Dupuytren's Contracture is typically based on the degree to which the fingers are flexed. A "flexion contracture" specifically refers to a situation where the fingers cannot fully extend due to tightening of this tissue. In the grading system, a Grade 3 classification indicates that there is a significant flexion contracture, typically with a flexion of more than 45 degrees at the metacarpophalangeal joint or a significant involvement of multiple digits. It represents a state where the contracture is pronounced enough to affect hand function and necessitates consideration for treatment. Understanding this classification is vital for evaluating the severity of Dupuytren's Contracture and determining the appropriate management and intervention strategies.

7. What type of tissue comprises tendons?

- A. Loose connective tissue
- B. Dense regular connective tissue**
- C. Adipose tissue
- D. Epithelial tissue

Tendons are primarily composed of dense regular connective tissue, which is characterized by a high concentration of collagen fibers arranged in a parallel configuration. This organization provides tendons with strength and the ability to withstand the tensile forces generated during muscle contraction. The parallel alignment of the fibers allows tendons to efficiently transmit the force from muscles to bones, facilitating movement. Dense regular connective tissue also contains a limited number of fibroblasts, which produce and maintain the collagen and elastin fibers, further contributing to the overall strength and durability needed for tendons. The presence of a relatively low amount of ground substance compared to the fiber content is another reason why dense regular connective tissue is specifically suited for tendons, as this composition enhances tensile strength. In contrast, loose connective tissue is less organized and provides support and elasticity but does not have the tensile strength required for tendons. Adipose tissue primarily serves as a fat storage and does not play a structural role in facilitating movement. Epithelial tissue, on the other hand, functions mainly as a protective barrier and is not involved in the structural support or movement characteristics that tendons provide.

8. What is the primary role of the electron transport chain?

- A. Fatty acid synthesis
- B. ATP production**
- C. Protein synthesis
- D. Carbohydrate breakdown

The primary role of the electron transport chain is ATP production, which is a crucial part of cellular respiration. This process occurs within the inner membrane of the mitochondria and involves a series of protein complexes that transfer electrons derived from nutrients. As electrons move through these complexes, energy is released and used to pump protons (H⁺) across the mitochondrial membrane, creating a gradient. This proton gradient drives the synthesis of ATP as protons flow back into the mitochondria through ATP synthase, a process known as oxidative phosphorylation. While other metabolic pathways play important roles in energy metabolism, such as fatty acid synthesis, protein synthesis, and carbohydrate breakdown, they do not directly involve the primary function of the electron transport chain, which is specifically designed to generate ATP using the energy derived from electrons. Thus, ATP production is central to the overall function of the electron transport chain, making it the correct answer in this context.

9. Which nerve palsy results in Bishop's Hand deformity?

- A. Median Nerve
- B. Ulnar Nerve**
- C. Radial Nerve
- D. Musculocutaneous Nerve

Bishop's Hand deformity, also known as the "claw hand" deformity, arises primarily from ulnar nerve palsy. This condition occurs when there is damage to the ulnar nerve, which is responsible for innervating the intrinsic muscles of the hand, particularly those that control finger movements, such as the interossei and the ulnar half of the flexor digitorum profundus. When the ulnar nerve is affected, the person may lose the ability to flex the fourth and fifth fingers at the proximal interphalangeal joints, while the metacarpophalangeal joints remain in extension, often resulting in a characteristic appearance of the hand. The thumb may also adopt a position that makes it difficult to perform pinching actions. This is what leads to the appearance of "Bishop's Hand," where the fingers curl into the palm in a claw-like position. The other nerves listed have different functions, and their palsies lead to different types of hand deformities. For instance, median nerve palsy results in ape hand deformity, and radial nerve palsy can lead to wrist drop. Musculocutaneous nerve injury does not typically lead to a prominent hand deformity in

10. Which fingers are most often affected by Trigger Finger?

- A. 1st and 2nd
- B. 3rd and 4th**
- C. 4th and 5th
- D. 2nd and 5th

Trigger Finger, also known as stenosing tenosynovitis, is a condition that affects the tendons in the fingers, causing pain and a locking or catching sensation when extending or flexing the fingers. The condition is most commonly seen in the 3rd (middle) and 4th (ring) fingers. The reason why the 3rd and 4th fingers are most often affected is related to the anatomical structures and mechanics of the hands. The tendons that flex these fingers pass through a series of pulleys in the hand. The 3rd and 4th fingers are subject to more strain from activities that involve gripping and holding, which makes them more susceptible to inflammation and irritation. Also, their positioning and usage in daily tasks make them more vulnerable to the condition. While other fingers can also be affected by Trigger Finger, the prevalence in the 3rd and 4th fingers is significantly higher, aligning with clinical observations. Understanding the mechanics of finger motion and the implications of repetitive stress can help identify and manage the risk factors associated with Trigger Finger effectively.

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://cmtbcregistration.examzify.com>

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