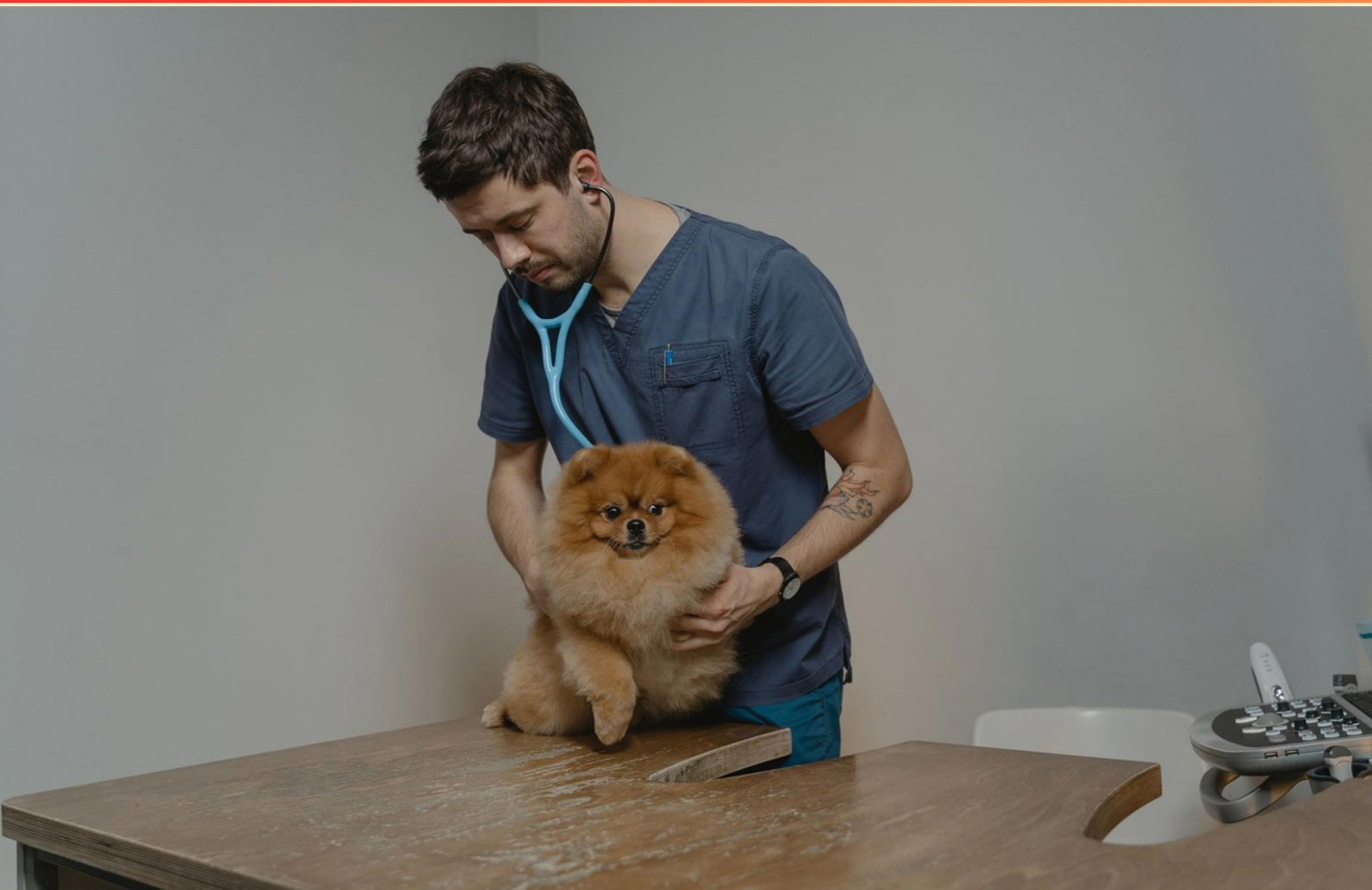


CMTBC REGISTRATION PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE

<https://cmtbcregistration.examzify.com>



Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

SAMPLE

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

SAMPLE

- 1. Which of the following best describes a class 3 lever?**
 - A. Elbow flexion
 - B. Standing on the balls of your feet
 - C. Seesaw, nodding your head back and forth
 - D. Hypoglossal nerve function
- 2. Which of the following is not an action of the scapula?**
 - A. Protraction
 - B. Upward rotation
 - C. Supination
 - D. Elevation
- 3. During the Neer Impingement Sign Test, which structure is involved in jamming into the anteroinferior surface of the acromion?**
 - A. Coracoid Process
 - B. Greater Tuberosity
 - C. Humeral Head
 - D. Subscapularis
- 4. Which of the following statements about conduction is true?**
 - A. It requires movement of fluids
 - B. It occurs through direct contact
 - C. It is ineffective for heat transfer
 - D. It is related to chemical reactions
- 5. What is the normal range of flexion for the thoracic spine?**
 - A. 20-30 degrees
 - B. 20-45 degrees
 - C. 25-45 degrees
 - D. 30-60 degrees
- 6. What condition can result in a malunion causing a "Dinner Fork Deformity"?**
 - A. Scaphoid Fracture
 - B. Colles Fracture
 - C. Transverse FX of Distal Radius
 - D. Radial Head Fracture

- 7. What would be the most appropriate approach for the first treatment of frozen shoulder?**
- A. Heat therapy
 - B. Oscillations - Grade 1 or 2
 - C. Chiropractic adjustments
 - D. Ultrasound therapy
- 8. White blood cells (WBCs) collected from an infection site reveal the presence of bacteria. This is due to which process?**
- A. Exocytosis
 - B. Endocytosis
 - C. Phagocytosis
 - D. Apoptosis
- 9. Portal hypertension is primarily associated with which condition?**
- A. Pancreatitis
 - B. Cirrhosis of the liver
 - C. Appendicitis
 - D. Gallstones
- 10. Which term refers to the midline of the body?**
- A. Lateral
 - B. Medial
 - C. Distal
 - D. Proximal

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. Which of the following best describes a class 3 lever?

- A. Elbow flexion
- B. Standing on the balls of your feet
- C. Seesaw, nodding your head back and forth
- D. Hypoglossal nerve function

A class 3 lever is defined by its arrangement, where the effort (force) is applied between the load (resistance) and the fulcrum (pivot point). In the context of the options provided, elbow flexion is an excellent example of a class 3 lever system. When you flex your elbow, the fulcrum is the elbow joint, the effort is applied by the biceps muscle as it contracts, and the load is the weight of the forearm and anything being held in the hand. This configuration effectively illustrates the characteristics of a class 3 lever, as the effort is indeed applied between the fulcrum and the load, allowing for a range of motion and speed of movement. In comparison, the other options do not represent this lever type accurately. For example, standing on the balls of your feet involves a class 2 lever situation where the load (body weight) is between the fulcrum (the ball of the foot) and the effort (force exerted by the calf muscles). On the other hand, a seesaw or nodding your head back and forth represents a class 1 lever, where the fulcrum is located between the effort and the load. Lastly, the function of the

2. Which of the following is not an action of the scapula?

- A. Protraction
- B. Upward rotation
- C. Supination
- D. Elevation

The action of the scapula primarily involves movements that help facilitate shoulder motion and stability. Protraction, upward rotation, and elevation are all recognized movements of the scapula that contribute to the dynamic range of motion for the shoulder girdle. Protraction refers to the movement of the scapula away from the spine, which allows for better reach in various activities. Upward rotation is essential for raising the arm above the head, as it enables the glenoid cavity to move in a way that aligns with the humerus. Elevation describes the upward movement of the scapula, as seen when shrugging the shoulders. Supination, however, is not an action associated with the scapula. Instead, supination pertains specifically to the forearm's movement, referring to the rotation of the forearm that turns the palm upward. This differentiation highlights that while the scapula plays a critical role in shoulder motion, it does not participate in actions associated with the forearm and wrist, such as supination. Thus, the correct answer identifies a movement that is unrelated to the functions of the scapula itself.

3. During the Neer Impingement Sign Test, which structure is involved in jamming into the anteroinferior surface of the acromion?

- A. Coracoid Process
- B. Greater Tuberosity**
- C. Humeral Head
- D. Subscapularis

The Neer Impingement Sign Test is designed to evaluate for impingement of the rotator cuff tendons, particularly the supraspinatus, which can be affected by the anatomy of the shoulder, including the greater tuberosity. During this test, when the arm is raised, the greater tuberosity of the humerus can come into contact with the anteroinferior surface of the acromion. This jamming occurs primarily due to the anatomical relationships of the shoulder structures, where the greater tuberosity is situated at the proximal end of the humerus, and, when elevated, it moves into a position where it can become impinged against the acromion. The other structures mentioned play roles in shoulder mechanics but are not directly involved in this specific impingement scenario during the test. For instance, the coracoid process is more related to the attachment of muscles and ligaments rather than direct articulation that results in impingement. The humeral head is the joint surface, but its role in this context is less about jamming and more about overall shoulder movement. Finally, the subscapularis is a muscle of the rotator cuff located on the anterior aspect of the shoulder, but

4. Which of the following statements about conduction is true?

- A. It requires movement of fluids
- B. It occurs through direct contact**
- C. It is ineffective for heat transfer
- D. It is related to chemical reactions

The statement regarding conduction that is true is that it occurs through direct contact. Conduction is a mode of heat transfer where thermal energy is transferred between materials that are in direct physical contact with one another. This means that heat moves from one molecule to another without any movement of the material itself; for instance, when you touch a hot surface, the heat transfers from the surface into your skin through direct contact. In contrast, the other statements do not accurately describe conduction. It does not require the movement of fluids, as that characterizes convection, another form of heat transfer. Regarding heat transfer effectiveness, conduction can be quite effective, especially in solids, where particles are closely packed. Furthermore, while conduction itself can happen alongside chemical reactions (for example, metals conducting heat in a reaction), it is not defined by or specifically related to chemical reactions. Understanding these distinctions is essential for grasping the concepts of thermal energy transfer.

5. What is the normal range of flexion for the thoracic spine?

- A. 20-30 degrees
- B. 20-45 degrees**
- C. 25-45 degrees
- D. 30-60 degrees

The normal range of flexion for the thoracic spine is typically recognized as being between 20-45 degrees. This range reflects the ability of the thoracic spine, which is impacted by the ribcage and the associated musculature, to flex forward. Adequate flexion in this region is necessary for various everyday activities and contributes to overall mobility. While some sources may provide varying figures, the range of 20-45 degrees is generally accepted and widely used in clinical assessments and practices related to thoracic spine movement. This knowledge is crucial for healthcare professionals working with patients who may experience conditions affecting spinal flexibility, as it aids in establishing baselines for assessment and tracking improvements in rehabilitation contexts.

6. What condition can result in a malunion causing a "Dinner Fork Deformity"?

- A. Scaphoid Fracture
- B. Colles Fracture**
- C. Transverse FX of Distal Radius
- D. Radial Head Fracture

The condition that can lead to a malunion resulting in a "Dinner Fork Deformity" is indeed a Colles Fracture. A Colles Fracture typically occurs in the distal radius, often from a fall onto an outstretched hand, common in older adults. When this fracture malunites, the distal segment of the radius often tilts dorsalward, creating a characteristic deformity that resembles a dinner fork, hence the name. This deformity specifically describes the hyperextension of the wrist and bulging at the wrist joint, which results from the upward angulation of the distal fragment of the radius. Therefore, the malunion of the fracture leads to both functional impairment and the recognizable physical appearance associated with the "Dinner Fork Deformity," making it a classic presentation in clinical settings. Understanding this allows healthcare professionals to diagnose and manage potential complications effectively.

7. What would be the most appropriate approach for the first treatment of frozen shoulder?

- A. Heat therapy
- B. Oscillations - Grade 1 or 2**
- C. Chiropractic adjustments
- D. Ultrasound therapy

The most appropriate approach for the first treatment of frozen shoulder, also referred to as adhesive capsulitis, is oscillations, specifically Grade 1 or 2 mobilizations. These gentle oscillatory movements are aimed at improving range of motion and relieving pain without causing further irritation to the shoulder joint. In the initial stages of frozen shoulder, patients often experience significant stiffness and pain, making aggressive treatments inappropriate. Grade 1 and 2 oscillations are characterized by low-amplitude movements performed within the range of motion that does not provoke pain. They can help reduce muscle guarding and increase synovial fluid circulation around the joint, promoting healing. Additionally, this method can enhance mobility gradually and prepare the shoulder for more intensive rehabilitation as the condition progresses. Heat therapy, while beneficial for muscle relaxation and increasing blood flow, may not directly address joint stiffness or the capsular restrictions central to frozen shoulder. Similarly, chiropractic adjustments are not typically focused on the range of motion or the specific soft tissue adaptations seen in frozen shoulder and might not target the underlying issues effectively. Ultrasound therapy, while it can be helpful in some circumstances, is generally not the first-line treatment for frozen shoulder. It may provide some pain relief but does not adequately address the mobility limitations that are essential

8. White blood cells (WBCs) collected from an infection site reveal the presence of bacteria. This is due to which process?

- A. Exocytosis
- B. Endocytosis
- C. Phagocytosis**
- D. Apoptosis

The presence of bacteria within the white blood cells collected from an infection site is primarily attributed to phagocytosis. This is a specific type of endocytosis, whereby certain white blood cells, known as phagocytes (such as macrophages and neutrophils), actively engulf and internalize harmful pathogens, including bacteria. During phagocytosis, the phagocytes recognize the bacteria, extend portions of their cell membrane around the pathogen, and then engulf it, forming a phagosome. Once inside the cell, the phagosome merges with lysosomes that contain enzymes to break down the bacteria, effectively neutralizing the threat. This process is crucial for the immune response, as it helps to eliminate infectious agents from the body. The other processes mentioned do not specifically describe the mechanism through which white blood cells capture and eliminate bacteria. While exocytosis relates to the expulsion of materials from a cell, and apoptosis refers to programmed cell death, neither of these processes involves the direct engulfing of pathogens like phagocytosis does. Endocytosis is a broader category that includes various forms of cellular uptake but does not specifically convey the significance of the immune function performed by phagocytes in this context.

9. Portal hypertension is primarily associated with which condition?

- A. Pancreatitis
- B. Cirrhosis of the liver**
- C. Appendicitis
- D. Gallstones

Portal hypertension is primarily associated with cirrhosis of the liver because cirrhosis leads to scarring and damage to the hepatic tissue. This scarring obstructs normal blood flow through the liver's vascular system, resulting in increased pressure in the portal vein, which carries blood from the gastrointestinal tract to the liver. When the liver is damaged due to cirrhosis, the changes in blood flow dynamics in the portal venous system create an environment conducive to the development of portal hypertension. In contrast, conditions like pancreatitis, appendicitis, and gallstones do not typically lead to significant changes in the portal vein pressure. While these could cause abdominal pain or complications, they do not have the same direct impact on the liver's blood flow and pressure dynamics as cirrhosis does. Thus, the association between portal hypertension and cirrhosis is a well-established medical understanding, making it the correct answer in this context.

10. Which term refers to the midline of the body?

- A. Lateral
- B. Medial**
- C. Distal
- D. Proximal

The term that refers to the midline of the body is "medial." In anatomical terminology, "medial" describes a position that is closer to the midline or center of the body, as opposed to being away from it. This is crucial for accurately describing the locations of body structures in relation to each other. For example, the nose is medial to the ears because it is located closer to the midline of the face. In contrast, "lateral" refers to positions further away from the midline. "Distal" and "proximal" are terms typically used to describe locations on the limbs, with "proximal" meaning closer to the point of attachment to the trunk and "distal" meaning farther away. Understanding these terms is essential for effectively communicating about anatomy and any medical or therapeutic procedures.

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!

SAMPLE