

Comprehensive Osteopathic Medical Licensing Examination (COMLEX USA) Practice (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. Which dermatome is associated with the perineum and rectum?**
 - A. Dermatome S3-S5**
 - B. Dermatome S2**
 - C. Dermatome S1**
 - D. Dermatome L1-L2**

- 2. What is the visceral sensation level corresponding to the heart?**
 - A. T1-T3**
 - B. T1-T5**
 - C. T2-T5**
 - D. T2-T4**

- 3. A DTR Grade of 3 corresponds to which reflex status?**
 - A. Normal**
 - B. Hyperactive w/ clonus**
 - C. Slightly hyperactive**
 - D. Diminished**

- 4. What factors contribute to the development of spondylolisthesis?**
 - A. Trauma alone**
 - B. Isolated genetic predisposition**
 - C. Bilateral spondylolysis**
 - D. Excessive physical activity**

- 5. Which muscle strength grade indicates full range of motion against gravity?**
 - A. Muscle strength grade 2**
 - B. Muscle strength grade 3**
 - C. Muscle strength grade 4**
 - D. Muscle strength grade 5**

- 6. In bilateral sacral shear, what does a negative spring test indicate?**
- A. Inherent motion of CNS**
 - B. Mobility of sacrum between ilia**
 - C. Mobility of cranial bones**
 - D. Movement of CSF**
- 7. Which of the following conditions is NOT commonly associated with fibromyalgia?**
- A. Headaches**
 - B. Insomnia**
 - C. Daily nausea**
 - D. Depression**
- 8. What area of the body does Dermatome C5 cover?**
- A. Thumb**
 - B. Middle finger**
 - C. Ring/little finger**
 - D. Medial upper arm**
- 9. For a Right on Right sacral torsion, which statement about the lumbar curvature is correct?**
- A. Curved convex to the left**
 - B. Curved convex to the right**
 - C. Curved concave to the right**
 - D. Curved concave to the left**
- 10. What motion is primarily performed by the infraspinatus muscle?**
- A. Abduction**
 - B. Internal rotation**
 - C. External rotation**
 - D. Flexion**

Answers

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

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Explanations

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1. Which dermatome is associated with the perineum and rectum?

- A. Dermatome S3-S5**
- B. Dermatome S2**
- C. Dermatome S1**
- D. Dermatome L1-L2**

The dermatome associated with the perineum and rectum is S3-S5. This is primarily because these sacral segments supply sensation to the lower portions of the body, including the perineal area. The S3-S5 dermatomes include the skin around the anal region and the perineum, which is innervated by the pudendal nerve. The sacral nerves are responsible for providing the necessary sensory innervation to these regions, reflecting the embryonic development of structures in this area. In contrast, the other dermatomes listed do not correspond to the perineum or rectal area. For example, S2 is primarily associated with the posterior aspects of the thighs and some parts of the buttocks. S1 pertains more to the lateral aspects of the lower leg and foot. Similarly, L1-L2 primarily supply the inguinal region and the anterior aspect of the thigh, which are entirely separate from the perineal and rectal innervation provided by S3-S5. Understanding the specific areas of dermatomes and their functionalities is crucial for correctly identifying sensory regions in clinical practice.

2. What is the visceral sensation level corresponding to the heart?

- A. T1-T3**
- B. T1-T5**
- C. T2-T5**
- D. T2-T4**

The visceral sensation level corresponding to the heart is generally understood to be T1 to T5. This range reflects the spinal nerves that carry sympathetic innervation to the heart and also convey sensory information related to visceral pain. The heart primarily receives parasympathetic innervation from the vagus nerve, but when it comes to the sensation of pain or discomfort originating from the heart, it is primarily referred through the thoracic sympathetic ganglia corresponding to the T1 to T5 segments of the spinal cord. Viscera, like the heart, can produce referred pain to the skin that is innervated by these specific spinal segments. This explains why individuals may experience pain in the chest, shoulder, and even the arm when experiencing issues related to the heart, such as in the case of angina or myocardial infarction, which are associated with these thoracic levels. The other answer choices focus on different, narrower spinal levels which do not encompass the full range of innervation relevant to visceral sensations from the heart. Thus, the correct range successfully captures the full extent of the heart's sensory circuitry as it relates to viscerosomatic reflexes and pain perception.

3. A DTR Grade of 3 corresponds to which reflex status?

- A. Normal
- B. Hyperactive w/ clonus**
- C. Slightly hyperactive
- D. Diminished

A deep tendon reflex (DTR) grade of 3 indicates that the reflex is hyperactive, and when it is graded as such with the additional presence of clonus, it suggests a significant neurological response. The term "hyperactive" implies that there is an exaggerated response compared to what is considered normal, and the presence of clonus denotes a rhythmic contraction and relaxation of the muscle that is elicited after the initial reflex. In contrast, a normal reflex, typically graded as a 2, represents a standard, expected response without exaggeration. A slightly hyperactive reflex might be graded as 1 or 2+, implying that it is somewhat above normal but not to the extent of clonus. A diminished reflex would be graded less than 2, indicating a weaker or absent response that is not consistent with a typical or exaggerated reaction. Thus, the classification aligns well with typical neurological assessments where DTR grades are utilized to evaluate the integrity of the reflex arc and possible central or peripheral nervous system issues. Therefore, a grade of 3, characterized by hyperactivity and clonus, accurately reflects the correct status of the reflex.

4. What factors contribute to the development of spondylolisthesis?

- A. Trauma alone
- B. Isolated genetic predisposition
- C. Bilateral spondylolysis**
- D. Excessive physical activity

Spondylolisthesis is a condition characterized by the displacement of a vertebra, which can cause pain and neurological symptoms. One of the primary factors contributing to the development of spondylolisthesis is bilateral spondylolysis. This condition refers to a defect or fracture in the pars interarticularis of the vertebra, which is part of the vertebral arch. When the pars interarticularis is compromised on both sides, it can result in instability of the vertebra, leading to anterior slippage over the underlying vertebra. Bilateral spondylolysis often results from repetitive stress on the spine, particularly in activities that involve hyperextension of the lumbar region, which can weaken this area and ultimately result in a failure. As the vertebra becomes unstable due to this bilateral defect, it predisposes the individual to spondylolisthesis. Other factors, such as trauma or genetic predisposition, may play a role in some cases but are not the primary contributors as bilaterally weakened joints are more directly linked to the displacement seen in spondylolisthesis. Excessive physical activity can be a contributing factor if it involves repeated stress on the spine, but it does not directly cause s

5. Which muscle strength grade indicates full range of motion against gravity?

- A. Muscle strength grade 2
- B. Muscle strength grade 3**
- C. Muscle strength grade 4
- D. Muscle strength grade 5

Muscle strength grade 3 indicates full range of motion against gravity. This grade reflects that the muscle can produce movement through the entire range of motion without any added resistance. In muscle strength grading, grade 3 is the minimum level necessary to perform activities against the force of gravity but does not account for any external resistance. This grade is pivotal in assessing an individual's ability to perform basic functional movements, which can be crucial in rehabilitation and physical therapy settings. For practical purposes, grade 3 strength is essential for activities such as standing up from a seated position or walking on level ground. The other strength grades denote varying levels of muscle function. Grade 2 indicates that the muscle can move through its range but only when gravity is removed, such as in a horizontal plane. Grade 4 suggests that the muscle can move against some resistance but not maximal, while grade 5 represents normal muscle strength, allowing for full range of motion against gravity along with maximal resistance. Understanding these distinctions can aid in determining appropriate treatment and rehabilitation protocols for patients with muscular weaknesses or injuries.

6. In bilateral sacral shear, what does a negative spring test indicate?

- A. Inherent motion of CNS
- B. Mobility of sacrum between ilia**
- C. Mobility of cranial bones
- D. Movement of CSF

A negative spring test in the context of bilateral sacral shear indicates that there is mobility of the sacrum between the ilia. In a negative spring test, the practitioner applies pressure on the sacrum, and if the sacrum moves freely and springy, it suggests that the sacrum is mobile and not restricted in its movement. This finding is crucial in assessing for dysfunctions in the sacroiliac joints and understanding the relationship between the sacrum and the ilium. The mobility of the sacrum is an essential aspect of osteopathic manipulative treatment, as restrictions in this area can lead to various physiological consequences and may affect patients' overall function. The negative spring test, therefore, supports the idea that there is no significant restriction in the sacrum's ability to move, indicating a healthy relationship between the sacrum and ilium. Understanding the implications of this test helps practitioners in diagnosing and treating conditions related to sacral motion and pelvic alignment effectively.

7. Which of the following conditions is NOT commonly associated with fibromyalgia?

- A. Headaches**
- B. Insomnia**
- C. Daily nausea**
- D. Depression**

Fibromyalgia is a complex chronic pain syndrome characterized by widespread musculoskeletal pain, fatigue, and a variety of other symptoms. The condition is frequently associated with several comorbidities that can enhance the overall suffering of patients. Headaches, particularly tension-type headaches and migraines, are often reported by those with fibromyalgia. This relationship can be attributed to the shared pathophysiological mechanisms, such as abnormalities in pain processing and increased sensitivity to stimuli. Insomnia is another common issue among fibromyalgia patients. Sleep disturbances, including trouble falling asleep, staying asleep, and experiencing non-restorative sleep, can significantly exacerbate the pain and fatigue typically associated with fibromyalgia. Depression is also frequently seen in individuals with fibromyalgia. The chronic pain and fatigue that characterize the condition can lead to emotional distress, resulting in a higher incidence of mood disorders among these patients. In contrast, daily nausea is not a widely recognized symptom associated with fibromyalgia. While gastrointestinal disturbances can occur in some patients, such as irritable bowel syndrome, nausea is not a primary complaint or a common condition linked to fibromyalgia. Hence, this lack of association with daily nausea differentiates it from the other symptoms mentioned, which are well-documented in the fibromyalgia population. Overall,

8. What area of the body does Dermatome C5 cover?

- A. Thumb**
- B. Middle finger**
- C. Ring/little finger**
- D. Medial upper arm**

Dermatome C5 primarily covers the area around the shoulder and the lateral aspect of the arm, generally extending to the lateral side of the forearm, with specific emphasis on the region that includes the deltoid and biceps area. It does not encompass the fingers specifically. The thumb, which is innervated primarily by C6, might be associated with some C5 input due to the overlap of dermatomes and the involvement of the radial nerve. However, the main sensory input for the thumb transitions into C6 rather than being directly tied to C5. In contrast, the middle finger is closely associated with the C7 dermatome, while the ring and little fingers are primarily linked to the C8 and T1 dermatomes. The medial upper arm is typically supplied by the T1 dermatome, as it does not fall under the influence of C5. Therefore, while C5 has important functions in shoulder movement and sensation, it is not the correct dermatome for sensation in the thumb specifically. The more accurate association for thumb sensation would lean towards C6.

9. For a Right on Right sacral torsion, which statement about the lumbar curvature is correct?

- A. Curved convex to the left**
- B. Curved convex to the right**
- C. Curved concave to the right**
- D. Curved concave to the left**

In a Right on Right sacral torsion, the lumbar curvature is characterized by a convexity to the right. This is because the sacrum rotates to the right, which affects the alignment and mechanics of the lumbar spine. When the sacrum is in a right torsion, the lumbar regions above tend to adapt by increasing the convexity on the same side. In this case, the lumbar spine will curve outward, which is described as convex to the right. This adaptive mechanism helps to maintain balance and posture, as well as minimize stress on the surrounding structures by aligning with the altered position of the sacrum. Understanding this pattern is crucial in osteopathic practice, as it relates to the assessment and treatment of somatic dysfunction. The mechanics of the lumbar spine, in response to the sacral torsion, can significantly influence treatment approaches.

10. What motion is primarily performed by the infraspinatus muscle?

- A. Abduction**
- B. Internal rotation**
- C. External rotation**
- D. Flexion**

The infraspinatus muscle is primarily responsible for external rotation of the shoulder joint. As a rotator cuff muscle, it plays a crucial role in stabilizing the shoulder while allowing for this specific motion. The infraspinatus originates on the infraspinous fossa of the scapula and inserts onto the greater tubercle of the humerus. When it contracts, it pulls the humerus outward, rotating it away from the body, which is characteristic of external rotation. Additionally, the muscle helps to stabilize the glenohumeral joint during arm movements, contributing to overall shoulder function. In contrast, abduction involves moving the arm away from the body and is primarily performed by the deltoid and supraspinatus muscles. Internal rotation, on the other hand, is primarily carried out by muscles such as the subscapularis and the pectoralis major. Flexion of the shoulder is primarily influenced by the anterior deltoid and pectoralis major. Thus, the infraspinatus is uniquely positioned and functionally specialized for external rotation.

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://comlex-usa.examzify.com>

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

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