

HOSA Sports Medicine Assessment Practice Test (Sample)

Study Guide



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Questions

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- 1. What can occur with an inversion sprain?**
 - A. Prior pain in the medial ankle**
 - B. Loss of ability to bear weight**
 - C. Extensive eversion of the foot**
 - D. Improvement of joint flexibility**
- 2. What is a primary reason for using taping and wrapping techniques?**
 - A. To enhance athletic performance**
 - B. To provide additional support, stability, and compression for the affected body part**
 - C. To improve blood circulation**
 - D. To increase mobility in injured areas**
- 3. What is true about opposition in thumb movement?**
 - A. Involves rotation of the wrist**
 - B. Refers to touching the pinky with the thumb**
 - C. Involves the action of the thumb touching the fingertips**
 - D. Involves a side movement of the thumb**
- 4. Exposure to cold and moisture can lead to which condition affecting the hands and feet?**
 - A. Frostbite**
 - B. Hypothermia**
 - C. Chilblain**
 - D. Frostnip**
- 5. How many kcal/g does alcohol provide?**
 - A. 5 kcal/g**
 - B. 6 kcal/g**
 - C. 7 kcal/g**
 - D. 8 kcal/g**

- 6. Which movement describes the thumb's action to touch the fingertips?**
- A. Opposition**
 - B. Flexion**
 - C. Extension**
 - D. Abduction**
- 7. Which type of carbohydrate is considered a simple carbohydrate?**
- A. Oats**
 - B. Pasta**
 - C. Sugars**
 - D. Brown rice**
- 8. What does adduction indicate in terms of limb movement?**
- A. Movement towards the midline of the body**
 - B. Movement away from the midline**
 - C. Lowering a part**
 - D. Moving a part backwards**
- 9. Which movement is characterized by the opposite action of supination?**
- A. Elevation**
 - B. Pronation**
 - C. Hyperextension**
 - D. Retraction**
- 10. What does the third reactive phase of injury refer to?**
- A. Reaction to injury**
 - B. Good wellness practices**
 - C. Reaction to return to competition**
 - D. Reaction to average fitness**

Answers

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

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Explanations

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1. What can occur with an inversion sprain?

- A. Prior pain in the medial ankle
- B. Loss of ability to bear weight**
- C. Extensive eversion of the foot
- D. Improvement of joint flexibility

In the case of an inversion sprain, the correct outcome is the loss of the ability to bear weight. An inversion sprain typically occurs when the foot rolls inward, causing injury to the ligaments on the outside of the ankle. This often results in significant pain, swelling, and instability, which can severely limit the ability to put weight on the affected foot. Due to the acute pain and potential damage to the ligaments, individuals frequently experience difficulty walking or standing without assistance, thereby leading to a notable loss of the ability to bear weight. While prior pain in the medial ankle could potentially be a factor in some cases, particularly if there's a history of issues in that region, it is not a direct result of an inversion sprain, which primarily affects the lateral ankle structures. Extensive eversion of the foot is the opposite action of what occurs during an inversion sprain, making it irrelevant in this context. Improvement of joint flexibility is also not typical after an injury like this, as swelling and instability often lead to reduced range of motion and flexibility in the affected area instead of improvement.

2. What is a primary reason for using taping and wrapping techniques?

- A. To enhance athletic performance
- B. To provide additional support, stability, and compression for the affected body part**
- C. To improve blood circulation
- D. To increase mobility in injured areas

The primary reason for using taping and wrapping techniques is to provide additional support, stability, and compression for the affected body part. This is critical in sports medicine as these techniques help prevent further injury and facilitate the healing process. When an athlete sustains an injury, the affected area may become unstable or vulnerable to further damage during activity. By using taping and wrapping, practitioners can create a binding effect that stabilizes joints and soft tissues, effectively reducing the risk of re-injury. Additionally, compression minimizes swelling and supports blood flow to the area, which is vital for recovery. While enhancing athletic performance may be a benefit of properly applied taping techniques, the primary focus should be on the protective and supportive role they play for injured parts. Similarly, improving blood circulation and increasing mobility can be secondary effects, but they are not the main reason for the application of taping or wrapping. The primary intent remains on providing that essential support and stability during the healing phase.

3. What is true about opposition in thumb movement?

- A. Involves rotation of the wrist
- B. Refers to touching the pinky with the thumb
- C. Involves the action of the thumb touching the fingertips**
- D. Involves a side movement of the thumb

Opposition in thumb movement specifically refers to the unique action where the thumb touches the fingertips of the same hand. This movement is essential for grasping and manipulating objects, allowing for a strong pinch grip and fine motor skills. The movement involves a combination of flexion and rotation at the carpometacarpal joint of the thumb, enabling the tip of the thumb to reach across the palm to touch the fingers. This movement is crucial in numerous daily activities, such as writing, picking up small objects, or buttoning clothing. The thumb's ability to oppose enhances hand function significantly, distinguishing humans and some primates from many other species that do not possess this ability. In contrast, options referring to rotation of the wrist or side movements of the thumb relate to other types of movement and do not accurately describe the opposition of the thumb. The mention of touching the pinky with the thumb does not represent the full range of opposition, as opposition can occur with any finger, not just the pinky. Thus, the correct answer highlights the specific action that defines thumb opposition.

4. Exposure to cold and moisture can lead to which condition affecting the hands and feet?

- A. Frostbite
- B. Hypothermia
- C. Chilblain**
- D. Frostnip

Chilblains are a condition that occurs as a reaction to cold and moisture exposure, typically affecting the small blood vessels in the extremities. When the skin is exposed to cold and then re-warmed, it can lead to inflammation and painful swelling. Chilblains often manifest as red, itchy patches on the hands and feet, and in some cases, they can develop into blisters. This condition is particularly common in individuals with poor circulation or in areas that experience fluctuating temperatures. On the other hand, frostbite involves the freezing of skin and underlying tissues, primarily due to prolonged exposure to extreme cold, resulting in more severe, lasting damage. Hypothermia refers to a systematic drop in body temperature and can affect overall bodily function, while frostnip is a milder form of frostbite that results in numbness and a pale appearance, which typically does not cause permanent damage. Understanding these distinctions can help clarify why chilblains is the proper identification of the condition associated with cold and moisture exposure.

5. How many kcal/g does alcohol provide?

- A. 5 kcal/g
- B. 6 kcal/g
- C. 7 kcal/g**
- D. 8 kcal/g

Alcohol provides 7 kcal/g, which is significant when considering the overall caloric intake in diet and health contexts. This value is distinctly higher than carbohydrates and proteins, which provide approximately 4 kcal/g each, and lower than fat, which yields about 9 kcal/g. Understanding that alcohol contributes 7 kcal/g is crucial for assessing dietary energy sources, particularly when evaluating the implications of alcohol consumption on weight management and overall health. Excessive calorie intake from alcohol can lead to weight gain and other health risks, emphasizing the importance of being aware of its caloric density.

6. Which movement describes the thumb's action to touch the fingertips?

- A. Opposition**
- B. Flexion
- C. Extension
- D. Abduction

The movement of the thumb that allows it to touch the fingertips is known as opposition. This unique movement involves the thumb rotating and moving across the palm towards the other fingers, enabling grasping and pinching actions that are crucial for tasks requiring precision, such as writing or picking up small objects. Opposition is a distinctive feature of human hand anatomy that highlights the opposable nature of the thumb, setting it apart from the fingers. This capacity allows for a wide range of movements and enhances hand function, supporting fine motor skills essential in many daily activities. In contrast, flexion refers to bending a joint, typically decreasing the angle between body parts, and would not describe the specific action of the thumb touching the fingers. Extension involves straightening a joint, which again does not apply to the action in question. Abduction refers to moving a body part away from the midline, which does not accurately capture the movement needed for the thumb to reach the fingertips. Therefore, opposition is the correct terminology for this thumb action.

7. Which type of carbohydrate is considered a simple carbohydrate?

- A. Oats**
- B. Pasta**
- C. Sugars**
- D. Brown rice**

The correct answer is sugars, which are classified as simple carbohydrates due to their structure and the way they are metabolized by the body. Simple carbohydrates consist of one or two sugar molecules, making them easily digestible and rapidly absorbed into the bloodstream. This results in a quick source of energy. In contrast, oats, pasta, and brown rice are examples of complex carbohydrates. These foods are composed of longer chains of sugar molecules, which take more time for the body to break down and convert into glucose. As a result, they provide sustained energy over a longer period, contributing to better feelings of fullness and more stable blood sugar levels. Therefore, while simple carbohydrates like sugars provide quick energy, complex carbohydrates offer more enduring benefits.

8. What does adduction indicate in terms of limb movement?

- A. Movement towards the midline of the body**
- B. Movement away from the midline**
- C. Lowering a part**
- D. Moving a part backwards**

Adduction refers to the movement of a limb or body part toward the midline of the body. This term originates from the Latin word "adductus," which means "to lead to." In anatomical terms, when a body part moves toward the center of the body, it is said to undergo adduction. For example, when you bring your arms down to your sides after raising them, you are performing adduction at the shoulder joint. Understanding adduction is crucial in various contexts, such as rehabilitation, sports training, and anatomy. It helps in analyzing movement patterns, assessing injuries, and designing exercise programs to improve overall strength and stability. This concept is fundamental in fields like physical therapy and sports medicine where precise movement analysis is necessary for effective treatment and training.

9. Which movement is characterized by the opposite action of supination?

- A. Elevation**
- B. Pronation**
- C. Hyperextension**
- D. Retraction**

The movement characterized by the opposite action of supination is pronation. Supination refers to the rotation of the forearm or foot such that the palm or sole faces upward or forward. In contrast, pronation involves the rotation that turns the palm or sole downward or backward. This opposition in movement is crucial in many activities, such as using tools or engaging in various sports, where the orientation of the limbs affects performance and biomechanics. Understanding the distinction between these two movements is essential in sports medicine since it not only impacts how athletes move but also helps in diagnosing injuries related to improper mechanics or repetitive strain. While elevation refers to lifting a body part, hyperextension involves extending a joint beyond its normal range of motion, and retraction pertains to moving a body part backward. None of these movements relate directly to the specific rotational actions of supination and pronation.

10. What does the third reactive phase of injury refer to?

- A. Reaction to injury**
- B. Good wellness practices**
- C. Reaction to return to competition**
- D. Reaction to average fitness**

The third reactive phase of injury refers specifically to the reaction to returning to competition. After an injury, athletes go through various phases of recovery, and this particular phase focuses on their psychological and physical readiness to re-enter competitive play. It involves assessing how well they have healed and whether they can safely perform at their previous levels. During this phase, athletes often deal with concerns about reinjury, confidence in their abilities, and adapting back to the competitive environment. This reaction is crucial since it directly impacts their performance and overall well-being. The other options do not capture the essence of the third reactive phase. Reaction to injury pertains more to the immediate psychological response after the injury occurs, while good wellness practices and average fitness are related to overall health management rather than the specific emotional and psychological adjustments athletes face when returning to competition.