

# Paramedic School Entry Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. Which muscles are primarily responsible for the process of breathing?**
  - A. Intercostals and diaphragm**
  - B. Smooth muscles and cardiac muscles**
  - C. Abdominal muscles and skeletal muscles**
  - D. Veins and arteries**
- 2. What is an important consideration when administering medications?**
  - A. Only the quantity of medication matters**
  - B. The timing and documentation are critical along with the six rights**
  - C. Medications can be given without checking patient history**
  - D. It is acceptable to give medications beyond their expiration date**
- 3. What are common symptoms associated with a dislocation?**
  - A. Deformity, pain, loss of function**
  - B. Fever, rash, dizziness**
  - C. Bleeding, swelling, infection**
  - D. Weak distal pulses, nausea, headaches**
- 4. Define "team dynamics" in the context of paramedic operations.**
  - A. The interaction and collaboration among team members during patient care**
  - B. The hierarchical structure of paramedic teams**
  - C. The individual performance of each team member**
  - D. The geographical distribution of paramedic resources**
- 5. In medical terminology, what does 'distal' refer to?**
  - A. A position closer to the core**
  - B. In a more central position**
  - C. A position further from the core**
  - D. A position closer to the heart**

- 6. What is one of the roles within the incident command system?**
- A. Security director**
  - B. Operations section chief**
  - C. Logistics analyst**
  - D. Communications coordinator**
- 7. What is one common sign of shock?**
- A. Rapid and weak pulse**
  - B. Persistent vomiting**
  - C. High blood pressure**
  - D. Fever and chills**
- 8. What are the classic signs associated with mumps?**
- A. Skin rash and joint pain**
  - B. Swollen salivary glands and fever**
  - C. Headaches and blurred vision**
  - D. Abdominal cramps and diarrhea**
- 9. How should an impaled object be managed?**
- A. Remove it to allow for visibility of injury**
  - B. Stabilize in place and control bleeding**
  - C. Apply a tourniquet**
  - D. Leave exposed for continued assessment**
- 10. What is the correct compression-to-breath ratio for a single rescuer performing CPR on an adult?**
- A. 15:2**
  - B. 30:2**
  - C. 10:1**
  - D. 20:2**

## **Answers**

SAMPLE

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

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## **Explanations**

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**1. Which muscles are primarily responsible for the process of breathing?**

- A. Intercostals and diaphragm**
- B. Smooth muscles and cardiac muscles**
- C. Abdominal muscles and skeletal muscles**
- D. Veins and arteries**

The muscles that are primarily responsible for the process of breathing are the intercostal muscles and the diaphragm. The diaphragm is a dome-shaped muscle located at the base of the thoracic cavity. When it contracts, it flattens and increases the volume of the thoracic cavity, creating a negative pressure that pulls air into the lungs. The intercostal muscles, situated between the ribs, assist by elevating the rib cage, which further expands the thoracic cavity and facilitates inhalation. In combination, these muscles enable the efficient exchange of oxygen and carbon dioxide in the lungs during the respiratory cycle. Respiration can be categorized as either active or passive. During active inhalation, both the diaphragm and the intercostal muscles contract, while in the passive exhalation phase at rest, the muscles relax, allowing the natural elastic recoil of the lung tissue and thoracic wall to push air out. The other answer options involve structures or types of muscles that do not primarily facilitate breathing. Smooth and cardiac muscles are involuntary muscles that perform functions in systems such as digestion and circulation, while abdominal and skeletal muscles can assist in forcing air out during vigorous activities but are not the primary muscles involved in the normal respiratory process. Lastly, veins and arteries are blood

**2. What is an important consideration when administering medications?**

- A. Only the quantity of medication matters**
- B. The timing and documentation are critical along with the six rights**
- C. Medications can be given without checking patient history**
- D. It is acceptable to give medications beyond their expiration date**

The choice that highlights the significance of timing and documentation alongside the six rights of medication administration is essential because it encompasses several crucial aspects of safe medication practice. The six rights refer to the right patient, right medication, right dose, right route, right time, and right documentation. Ensuring each of these rights is adhered to minimizes the risk of errors and helps in maintaining patient safety. Documentation is vital for creating a complete medical record, which assists in tracking what medications have been given, their doses, and the times they were administered. Proper timing ensures the medication is effective, preventing issues like overdose or sub-therapeutic effects. This thorough approach fosters accountability and continuity of care as it allows other healthcare providers to be informed about what has been administered. Therefore, emphasizing the timing and documentation along with the six rights reflects a comprehensive understanding of responsible medication administration in a clinical setting.

### **3. What are common symptoms associated with a dislocation?**

- A. Deformity, pain, loss of function**
- B. Fever, rash, dizziness**
- C. Bleeding, swelling, infection**
- D. Weak distal pulses, nausea, headaches**

The symptoms commonly associated with a dislocation primarily include deformity, pain, and loss of function. When a joint is dislocated, the ends of the bones are displaced from their normal positions, leading to a visible deformity. This misalignment often causes significant pain due to the tearing of ligaments and strain on surrounding tissues. As the joint is no longer in its proper position, movement becomes restricted, resulting in a loss of function. These symptoms are classic indicators of a dislocation and help differentiate it from other types of injuries. The other options presented include symptoms that are not typically associated with dislocations. Symptoms like fever, rash, and dizziness relate more to infections or systemic conditions rather than mechanical joint injuries. Bleeding, swelling, and infection could occur in various injuries but are not specific to dislocations alone. Likewise, symptoms such as weak distal pulses, nausea, and headaches suggest other medical issues that are not indicative of a dislocated joint.

### **4. Define "team dynamics" in the context of paramedic operations.**

- A. The interaction and collaboration among team members during patient care**
- B. The hierarchical structure of paramedic teams**
- C. The individual performance of each team member**
- D. The geographical distribution of paramedic resources**

In the context of paramedic operations, "team dynamics" refers to the interaction and collaboration among team members during patient care. This encompasses how team members communicate, share information, and coordinate tasks to achieve common goals, such as providing effective and timely medical assistance to patients. Understanding team dynamics is essential for paramedics, as the quality of their teamwork can significantly impact patient outcomes. Effective interactions can lead to improved decision-making, enhanced problem-solving, and the ability to respond swiftly to emergencies. Each team member plays a vital role, and their ability to work together harmoniously is crucial in high-pressure situations characteristic of emergency medical services. Cultivating strong team dynamics leads to a supportive environment where individuals feel valued and motivated, ultimately contributing to better performance in patient care scenarios.

**5. In medical terminology, what does 'distal' refer to?**

- A. A position closer to the core**
- B. In a more central position**
- C. A position further from the core**
- D. A position closer to the heart**

In medical terminology, 'distal' describes a position that is further away from the central point of the body or the point of attachment of a limb. For example, if discussing the arm, the wrist is distal to the elbow because it is farther from the center of the body. This term is essential in anatomy and medicine for accurately describing locations, especially in relation to limbs and other structures. The option that indicates a position closer to the core misinterprets the term 'distal.' Similarly, a description of a position that is more central also does not align with the definition, as it suggests proximity to the body's center rather than distance from it. The option referring to a position closer to the heart is specific and relates to a central aspect of the body and doesn't capture the broader application of 'distal' across different parts of the body. Thus, 'distal' accurately reflects the concept of distance from the core or center, confirming that the correct interpretation is indeed the position further from the core.

**6. What is one of the roles within the incident command system?**

- A. Security director**
- B. Operations section chief**
- C. Logistics analyst**
- D. Communications coordinator**

The Operations Section Chief is a vital role within the Incident Command System (ICS). This individual is responsible for managing all tactical operations at an incident. They are tasked with overseeing the implementation of the incident action plan, directing the resources needed to accomplish the objectives, and coordinating all operational activities. This includes assigning responsibilities to different teams, ensuring that all tasks are carried out efficiently, and adapting plans as situations evolve on the ground. The Operations Section Chief plays a crucial role in the chain of command, facilitating communication and coordination among the various teams and resources present at the incident. Their leadership is key in ensuring that the incident response is effective and organized, which ultimately contributes to the safety and success of the operation. In contrast, other roles mentioned, while potentially relevant in certain contexts, do not fit the formal definitions within ICS. The security director, logistics analyst, and communications coordinator would either fall under different categories within ICS or may represent variation in roles that are not standard within the system. The focus and responsibilities in the ICS framework elevate the Operations Section Chief as a central figure in incident management.

## 7. What is one common sign of shock?

- A. Rapid and weak pulse**
- B. Persistent vomiting**
- C. High blood pressure**
- D. Fever and chills**

A rapid and weak pulse is a common sign of shock because it reflects the body's response to a significant drop in blood volume or pressure. When an individual is in shock, the body attempts to compensate for inadequate blood flow and oxygen delivery to vital organs. One of the compensatory mechanisms includes an increase in heart rate as the heart works harder to circulate the remaining blood (even if the pulse is weak due to low blood volume). This physiological response often results in a rapid pulse, which may be difficult to palpate due to weaker circulation. In contrast, persistent vomiting is generally not a direct indicator of shock, although it can be a symptom of other underlying issues that could lead to shock. High blood pressure is typically not associated with shock; in fact, shock usually presents with low blood pressure as blood flow is compromised. Fever and chills may indicate an infection or other conditions but are not classic signs of shock. Understanding these physiological responses is crucial for identifying and managing shock appropriately in clinical settings.

## 8. What are the classic signs associated with mumps?

- A. Skin rash and joint pain**
- B. Swollen salivary glands and fever**
- C. Headaches and blurred vision**
- D. Abdominal cramps and diarrhea**

The signs associated with mumps are primarily characterized by swollen salivary glands, particularly the parotid glands located near the jawline, leading to noticeable swelling on one or both sides of the face. This is often accompanied by fever, which is a common systemic response to the viral infection. The inflammation of the salivary glands can cause discomfort and pain, which are typical manifestations of mumps. Understanding these classic symptoms is crucial for identification and management, as mumps can lead to complications if not recognized early. Other options listed do not align with the typical presentation of mumps and reflect symptoms associated with different medical conditions. For example, a skin rash and joint pain are more indicative of other viral illnesses, headaches and blurred vision are not specific to mumps, and abdominal cramps with diarrhea are unrelated to the classic signs of this viral infection.

**9. How should an impaled object be managed?**

- A. Remove it to allow for visibility of injury
- B. Stabilize in place and control bleeding**
- C. Apply a tourniquet
- D. Leave exposed for continued assessment

Stabilizing an impaled object in place and controlling bleeding is the most appropriate management because removing the object can cause further injury and significant bleeding. The impaled object might be acting as a plug for a wound, preventing blood loss and protecting vital structures beneath it. By stabilizing the object, you minimize movement that could exacerbate injury or lead to severe complications. Controlling bleeding is crucial in this situation, as excessive blood loss can be life-threatening. Techniques for controlling bleeding in this scenario may include applying dressings around the object without trying to remove it. This approach helps to secure the object while still allowing for the careful assessment and management of the injury as further medical assistance is arranged.

**10. What is the correct compression-to-breath ratio for a single rescuer performing CPR on an adult?**

- A. 15:2
- B. 30:2**
- C. 10:1
- D. 20:2

The correct compression-to-breath ratio for a single rescuer performing CPR on an adult is indeed 30:2. This ratio emphasizes the importance of maintaining high-quality chest compressions while also ensuring that ventilation is provided. The guideline of 30 compressions followed by 2 breaths reflects the most effective method for maintaining blood circulation and oxygenation during cardiac arrest. The compressions should be performed at a rate of about 100 to 120 per minute, allowing for adequate depth and allowing full chest recoil between compressions. This emphasis on high-quality compressions is crucial, as it helps to circulate blood to vital organs and increases the chances of a successful resuscitation. Providing two breaths after 30 compressions ensures that oxygen is delivered to the lungs, which is essential in treating a patient who is not breathing. By adhering to this ratio, the single rescuer balances the need for effective chest compressions with the provision of necessary ventilation, thereby maximizing the overall efficacy of CPR.