Jones and Bartlett EMT Course Practice Test (Sample)

Study Guide

Everything you need from our exam experts!

Table of Contents

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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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. Which of the following bones is one of three that fuse to form the pelvic ring?

A. Ilium

B. Pubis

C. Ischium

D. Coccyx

2. Which part of the cranium is referred to as the most posterior portion?

A. Frontal bone

B. Occiput

C. Temporal bone

D. Parietal bone

3. What term describes the movement of air between the lungs and the environment?

A. Inhalation

B. Ventilation

C. Diffusion

D. Respiration

4. What structure is described as a sac behind the pubic symphysis that collects and stores urine?

A. Urinary bladder

B. Kidney

C. Urethra

D. Renal tubule

5. What is the primary function of motor nerves?

A. Conduct sensory information

B. Control muscle contractions

C. Regulate involuntary functions

D. Transmit pain signals

6. What term describes the pressure created by proteins in plasma that helps draw water into the capillaries?

A. Osmotic pressure

B. Hydrostatic pressure

C. Oncotic pressure

D. Colloidal pressure

7. What term is used to describe a position closer to or on the skin?

A. Deep

B. Proximal

C. Superficial

D. Inferior

8. Which term describes the process of breathing in and out?

A. Inhalation

B. Exhalation

C. Ventilation

D. Respiration

9. Which bone is the larger of the two bones in the lower leg?

A. Fibula

B. Tibia

C. Radius

D. Ulna

10. Which part of the nervous system controls involuntary functions like digestion and sweating?

A. Central nervous system

B. Peripheral nervous system

C. Autonomic nervous system

D. Somatic nervous system

Answers

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

Explanations

1. Which of the following bones is one of three that fuse to form the pelvic ring?

A. Ilium

B. Pubis

C. Ischium

D. Coccyx

The pelvic ring is composed of three bones: the ilium, the pubis, and the ischium, which together form the structure known as the pelvis. Among the options presented, the pubis is indeed one of these three bones. The ilium, another one of the pelvic bones, forms the upper part of the pelvis and contributes to the overall shape and support. The ischium contributes to the lower and back part of the pelvis, providing structure and support when sitting. The coccyx, on the other hand, is not part of the pelvic ring but rather is the terminal bone of the vertebral column. Therefore, it does not fuse with the ilium or ischium to form the pelvic ring. Understanding the role of the pubis within the pelvic ring is crucial in anatomy, as it plays a key role in weight-bearing and movement, along with its involvement in the structure that protects internal organs within the pelvic cavity.

2. Which part of the cranium is referred to as the most posterior portion?

A. Frontal bone

B. Occiput

C. Temporal bone

D. Parietal bone

The most posterior portion of the cranium is known as the occiput. This area corresponds to the back of the skull and plays a crucial role in protecting the cerebellum, which is found directly underneath it, as well as the brainstem. The occipital bone, which makes up the occiput, has a significant anatomical structure known as the foramen magnum, where the spinal cord exits the skull to connect with the brain. This positioning is important for the protection of the critical nervous system components and contributes to the overall structure and stability of the skull. In contrast, the frontal bone is located at the forehead, the temporal bones are positioned on the sides of the skull, and the parietal bones are situated on the top of the head, none of which are posterior in relation to the occiput. Understanding the orientation and terminology related to cranial anatomy is essential for EMTs, as it aids in assessing head injuries and communicating effectively about specific areas during patient care.

3. What term describes the movement of air between the lungs and the environment?

A. Inhalation

B. Ventilation

C. Diffusion

D. Respiration

The correct term that describes the movement of air between the lungs and the environment is ventilation. Ventilation refers specifically to the mechanical process of inhaling and exhaling air, effectively bringing oxygen into the lungs and removing carbon dioxide from the body. When ventilation occurs, it includes both inhalation (or inspiration) and exhalation (or expiration). It is essential for maintaining adequate gas exchange, which is crucial for the body's metabolic needs. Inhalation is part of the ventilation process, but it does not encompass exhalation, thus it is more specific and doesn't fully capture the entire movement of air to and from the lungs. Diffusion refers to the passive movement of gases (oxygen and carbon dioxide) at a cellular level, primarily across alveolar membranes in the lungs; it is different from the process of air movement itself. Respiration can describe both the cellular process of producing energy and the overall physiological process of gas exchange but is broader in context and does not specifically address the mechanical aspects of air movement between the lungs and the environment. This distinction makes ventilation the most accurate choice for describing the air movement process between the lungs and the external atmosphere.

4. What structure is described as a sac behind the pubic symphysis that collects and stores urine?

A. Urinary bladder

B. Kidney

C. Urethra

D. Renal tubule

The correct answer is the urinary bladder, which is a muscular sac located behind the pubic symphysis. Its primary function is to collect and store urine produced by the kidneys until it is ready to be excreted from the body. The bladder is able to expand and contract as it fills and empties, and it connects to the urethra, which is the duct through which urine is discharged. In this context, the kidneys are responsible for filtering blood and producing urine, but they do not collect or store urine; instead, they release it into the ureters, which then transport urine to the bladder. The urethra is simply the passageway for urine to exit the body and does not function as a storage structure. The renal tubule is part of the nephron in the kidney where urine formation occurs, but it is not involved in the collection or storage of urine. Hence, the urinary bladder is uniquely suited to the task described in the question, making it the correct answer.

5. What is the primary function of motor nerves?

A. Conduct sensory information

B. Control muscle contractions

C. Regulate involuntary functions

D. Transmit pain signals

The primary function of motor nerves is to control muscle contractions. Motor nerves are responsible for transmitting signals from the central nervous system (CNS) to various muscles throughout the body, enabling voluntary movements such as walking, picking up objects, and other physical activities. When the brain sends a signal through the motor nerves, it effectively instructs the corresponding muscles to contract or relax, facilitating movement. Understanding this role is crucial for EMTs, as recognizing how muscle control works can help them assess and respond to injury scenarios, including those involving motor function impairment. This capacity for muscle control is distinct from other types of nerves, like sensory nerves, which are focused on relaying sensory information; autonomic nerves, which regulate involuntary functions like heart rate and digestion; or nociceptive pathways, which transmit pain signals.

6. What term describes the pressure created by proteins in plasma that helps draw water into the capillaries?

A. Osmotic pressure

B. Hydrostatic pressure

C. Oncotic pressure

D. Colloidal pressure

The term that describes the pressure created by proteins in plasma, which plays a crucial role in drawing water into the capillaries, is oncotic pressure. Oncotic pressure specifically refers to the osmotic pressure exerted by proteins, particularly albumin, in a blood vessel's plasma. This pressure is vital for maintaining the balance of fluid between the blood vessels and the tissues, helping regulate the movement of water and preventing excessive accumulation of fluid in the interstitial spaces. Osmotic pressure, while related, generally refers to the pressure required to prevent the movement of water into a solute concentration and does not specifically focus on the effects of proteins. Hydrostatic pressure is the fluid pressure exerted by the blood against the vessel walls, whereas colloidal pressure often refers to the same phenomenon as oncotic pressure but is not as commonly used in clinical settings. In this context, oncotic pressure is the term that directly addresses the protein-induced mechanism of fluid balance and movement within the capillaries.

7. What term is used to describe a position closer to or on the skin?

A. Deep

B. Proximal

C. Superficial

D. Inferior

The term that describes a position closer to or on the skin is "superficial." In anatomical terminology, superficial refers to structures that are situated nearer to the external surface of the body. For example, the epidermis is considered superficial compared to the deeper layers of skin, such as the dermis or subcutaneous tissue. Understanding this term is important in the context of anatomy and medical practice because it helps in describing the location of wounds, injuries, or surgical sites in relation to the body's surface. By using precise language like "superficial," healthcare providers can communicate more effectively about the nature and depth of medical conditions or procedures. In contrast, terms like "deep" refer to structures that are situated further from the surface, while "proximal" is used to describe the location of a body part closer to the point of attachment or center of the body, typically used in the context of limbs. "Inferior" describes a position that is lower or below another structure, unrelated to proximity to the skin. Understanding these terms enhances clarity in medical discussions and documentation.

8. Which term describes the process of breathing in and out?

A. Inhalation

B. Exhalation

C. Ventilation

D. Respiration

The term that describes the process of breathing in and out is "ventilation." Ventilation encompasses both inhalation, which refers specifically to the act of taking air into the lungs, and exhalation, which is the process of expelling air from the lungs. Together, these actions form the complete cycle of ventilation, which is essential for gas exchange in the body, allowing oxygen to enter the bloodstream and carbon dioxide to be removed. In this context, while inhalation and exhalation are components of the broader term, ventilation captures the entirety of breathing as a physiological process. Respiration, on the other hand, is often used to refer to the biochemical processes by which cells utilize oxygen and produce carbon dioxide, rather than the mechanical act of breathing itself. This distinction is key in understanding respiratory physiology and the terms related to it.

9. Which bone is the larger of the two bones in the lower leg?

A. Fibula

B. Tibia

C. Radius

D. Ulna

The tibia is the larger of the two bones in the lower leg. This bone is also known as the shinbone and is responsible for bearing the majority of the body's weight when standing, walking, or running. The tibia is situated medially (toward the center of the body) in relation to the fibula, which is the thinner bone located on the lateral side (outer side) of the lower leg. This anatomical arrangement allows the tibia to provide both structural support and a stable surface for muscle attachment, enabling efficient movement and strength in the lower leg. The fibula, while important for providing stability to the ankle and supporting the muscles of the lower leg, does not contribute significantly to weight-bearing. Understanding the differences in size and role between these bones is crucial for EMTs when assessing injuries or conditions involving the lower leg. The other options listed—radius and ulna—are bones found in the forearm, not the lower leg, which makes them irrelevant to this question. The focus on the tibia as the larger bone emphasizes its primary function in locomotion and support in the lower extremity.

10. Which part of the nervous system controls involuntary functions like digestion and sweating?

A. Central nervous system

B. Peripheral nervous system

C. Autonomic nervous system

D. Somatic nervous system

The autonomic nervous system is the part of the nervous system that regulates involuntary functions in the body, such as digestion, sweating, heart rate, and respiratory functions. It operates without conscious control, allowing the body to maintain homeostasis and respond automatically to internal and external stimuli. The autonomic nervous system is further divided into the sympathetic and parasympathetic systems, which work together to balance bodily functions. For instance, during stress, the sympathetic system may increase heart rate and blood pressure, while the parasympathetic system works to calm the body and promote digestion when at rest. In contrast, the central nervous system, which includes the brain and spinal cord, is responsible for processing information and coordinating the body's responses. The peripheral nervous system connects the central nervous system to the limbs and organs but does not specifically control involuntary functions. The somatic nervous system primarily governs voluntary movements and processes, such as muscle control, making it distinct from the autonomic regulatory mechanisms of involuntary actions.

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://jonesbartlettemt.examzify.com

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