

Chiropractic Assistant Certification Practice Test (Sample)

Study Guide



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SAMPLE

Questions

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- 1. What is the primary function of bile in the digestive system?**
 - A. Absorption of nutrients**
 - B. Emulsification of fats**
 - C. Production of digestive enzymes**
 - D. Regulation of blood sugar**
- 2. What does the prefix "scler-" mean?**
 - A. Soft, Flexible**
 - B. Hard, Indurated**
 - C. Straight**
 - D. Circular**
- 3. What accessory digestive organ secretes gastric juices, amylase, lipase, and protease while also producing insulin?**
 - A. Pancreas**
 - B. Spleen**
 - C. Liver**
 - D. Gallbladder**
- 4. What is the exchange of air between the outside environment and the lungs called?**
 - A. Ventilation**
 - B. Breathing**
 - C. Pulmonary ventilation**
 - D. All of the above**
- 5. True or False: The autonomic and somatic nervous systems are under the control of the peripheral nervous system.**
 - A. True**
 - B. False**
 - C. Sometimes**
 - D. Not applicable**

- 6. _____ circulation is blood moving to and from the lungs.**
- A. Vascular**
 - B. Arterial**
 - C. Systemic**
 - D. Pulmonary**
- 7. Under HIPAA, how long must you store a minor's records?**
- A. 5 years after the patient turns 18**
 - B. 6 years**
 - C. 6 years after the patient's 18th birthday**
 - D. 7 years**
- 8. Which triangular flat bone forms part of the shoulder girdle?**
- A. Clavicle**
 - B. Sternum**
 - C. Scapula**
 - D. Sphenoid**
- 9. Chiropractic medicine centers around which part of the body?**
- A. Nervous system**
 - B. Muscular system**
 - C. Vascular system**
 - D. Digestive system**
- 10. Which of the following structures serves as a middle layer for muscle attachment?**
- A. Fascia**
 - B. Perimysium**
 - C. Endomysium**
 - D. Epimysium**

Answers

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

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Explanations

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1. What is the primary function of bile in the digestive system?

- A. Absorption of nutrients**
- B. Emulsification of fats**
- C. Production of digestive enzymes**
- D. Regulation of blood sugar**

The primary function of bile in the digestive system is emulsification of fats. Bile, which is produced by the liver and stored in the gallbladder, contains bile salts that help break down large fat globules into smaller droplets. This process increases the surface area available for digestive enzymes to act upon, facilitating more efficient digestion and absorption of fats in the small intestine. Without bile, the digestion of fats would be significantly less effective, leading to malabsorption and potential nutritional deficiencies. While absorption of nutrients and the production of digestive enzymes are crucial aspects of digestion, they are not the direct functions of bile. Absorption primarily occurs through the intestinal lining after fats have been emulsified, and digestive enzymes are produced by the pancreas, not by bile. Regulation of blood sugar is also a separate function largely managed by the pancreas through the release of insulin and glucagon, rather than by bile.

2. What does the prefix "scler-" mean?

- A. Soft, Flexible**
- B. Hard, Indurated**
- C. Straight**
- D. Circular**

The prefix "scler-" comes from the Greek word "skleros," meaning "hard." In medical terminology, it is used to denote conditions or characteristics involving hardness or induration in tissues. For example, in the context of the eye, "sclera" refers to the tough outer layer, commonly known as the "whites" of the eyes, which is hard in texture compared to other ocular tissues. This prefix helps convey vital information about the state of tissues or conditions that may involve rigidity or thickening. Recognizing prefixes like "scler-" is important for understanding various medical terms and their implications in health and disease. The other options refer to different characteristics that do not align with the meaning of "scler-." For instance, the notion of "soft" or "flexible" would be represented by a prefix like "malac-" which means soft or fragile. The term "straight" points to a different prefix altogether, such as "ortho-," while "circular" would pertain to another set of terms entirely related to shape or form. Understanding the etymology and usage of prefixes is critical for comprehending the nuances of medical vocabulary.

3. What accessory digestive organ secretes gastric juices, amylase, lipase, and protease while also producing insulin?

A. Pancreas

B. Spleen

C. Liver

D. Gallbladder

The pancreas is a crucial accessory digestive organ that performs both exocrine and endocrine functions. It secretes a variety of digestive enzymes, including amylase (which helps break down carbohydrates), lipase (which aids in fat digestion), and protease (which is important for protein digestion). These digestive juices are released into the small intestine to assist with the breakdown and absorption of nutrients from food. In addition to its role in digestion, the pancreas has an endocrine function where it produces insulin, a hormone that regulates blood sugar levels. This dual functionality makes the pancreas unique among the organs mentioned, as it plays key roles in both nutrient digestion and metabolic control. In contrast, the other organs listed do not perform these functions. The spleen is primarily involved in immune response and blood filtration rather than digestion. The liver is involved in metabolism, detoxification, and bile production, but not directly in the secretion of digestive enzymes in the same manner as the pancreas. The gallbladder stores bile produced by the liver and releases it to help digest fats, but it does not produce digestive enzymes or hormones like insulin.

4. What is the exchange of air between the outside environment and the lungs called?

A. Ventilation

B. Breathing

C. Pulmonary ventilation

D. All of the above

The exchange of air between the outside environment and the lungs is a concept that encompasses several terms that describe the same physiological process. Ventilation refers to the movement of air into and out of the lungs, which is essential for gas exchange—bringing oxygen in and expelling carbon dioxide. Breathing is a more common, everyday term that conveys the same idea of inhalation and exhalation. Pulmonary ventilation is a technical term that specifically describes the mechanical process of ventilating the lungs. Since all these terms represent aspects of the same process—air movement that facilitates gas exchange—the answer includes all three terms, making it a comprehensive choice. This reflects the interconnectedness of these concepts within respiratory physiology, demonstrating that different terminologies can describe the same fundamental process.

5. True or False: The autonomic and somatic nervous systems are under the control of the peripheral nervous system.

A. True

B. False

C. Sometimes

D. Not applicable

The statement is true because both the autonomic and somatic nervous systems are indeed components of the peripheral nervous system (PNS). The peripheral nervous system is responsible for transmitting sensory and motor signals between the central nervous system (CNS) and the rest of the body. The somatic nervous system controls voluntary movements and transmits sensory information from the skin and muscles to the CNS. In contrast, the autonomic nervous system regulates involuntary bodily functions, such as heart rate, digestion, and respiratory rate, and operates without conscious control. Since both systems serve distinct yet essential roles in communicating and regulating functions throughout the body, acknowledging that they are under the umbrella of the peripheral nervous system highlights their interconnectedness in functioning as a whole.

6. _____ circulation is blood moving to and from the lungs.

A. Vascular

B. Arterial

C. Systemic

D. Pulmonary

Pulmonary circulation refers specifically to the pathway of blood flow between the heart and the lungs. In this circuit, deoxygenated blood is transported from the right side of the heart to the lungs through the pulmonary arteries, where it receives oxygen and releases carbon dioxide. The now oxygenated blood returns to the left side of the heart via the pulmonary veins, ready to be distributed through systemic circulation to the rest of the body. Understanding pulmonary circulation is critical in the context of cardiovascular physiology as it highlights how gas exchange occurs in the lungs, emphasizing the importance of efficient blood flow for maintaining proper oxygenation of the body's tissues.

7. Under HIPAA, how long must you store a minor's records?

- A. 5 years after the patient turns 18**
- B. 6 years**
- C. 6 years after the patient's 18th birthday**
- D. 7 years**

The retention requirement for a minor's medical records under HIPAA stipulates that they must be kept for a specific period following the patient's 18th birthday. The correct response indicates that records must be stored for a period of 6 years after the individual turns 18. This regulation is designed to ensure that adults have access to their medical records for an adequate amount of time after reaching the age of majority, allowing them to manage their health and personal history effectively. This timeframe helps align with HIPAA's overarching framework, which promotes both the protection of an individual's health information and the patients' rights to access their records as they transition into adulthood. In contrast, other options may fail to recognize the need for the additional years following the age of majority, as retaining for just 5 years or expressing a different timeframe could lead to insufficient record-keeping and patient access issues. Thus, this specific retention period reflects a balance between legal compliance and the practical needs of patients.

8. Which triangular flat bone forms part of the shoulder girdle?

- A. Clavicle**
- B. Sternum**
- C. Scapula**
- D. Sphenoid**

The scapula is known as the shoulder blade, and it is a triangular flat bone that plays a crucial role in the shoulder girdle. It serves as an attachment point for several muscles that facilitate arm movement and contributes to the overall stability of the shoulder joint. The scapula articulates with the humerus to form the shoulder joint and connects to the clavicle, which further connects to the sternum, thus forming a complete shoulder girdle. This anatomical structure allows for a wide range of motion in the arm and is vital for numerous upper body activities.

9. Chiropractic medicine centers around which part of the body?

- A. Nervous system**
- B. Muscular system**
- C. Vascular system**
- D. Digestive system**

Chiropractic medicine primarily focuses on the nervous system and its relationship to the overall health of the body. Chiropractors emphasize the importance of spinal health because the spine houses and protects the spinal cord, which is a critical component of the central nervous system. The nervous system controls all bodily functions and communicates between the brain and the rest of the body. By aligning the spine through various chiropractic techniques such as adjustments, practitioners aim to improve nervous system function, which can enhance overall health, alleviate pain, promote healing, and improve bodily functions. This holistic approach highlights the integral role of the nervous system in maintaining health and wellness, making it the central focus of chiropractic care. The other systems mentioned, such as the muscular, vascular, and digestive systems, are indeed important for overall health, but they are not the primary focus of chiropractic practice. Instead, these systems are often influenced by the health of the nervous system and the proper alignment of the spine.

10. Which of the following structures serves as a middle layer for muscle attachment?

- A. Fascia**
- B. Perimysium**
- C. Endomysium**
- D. Epimysium**

The perimysium serves as a middle layer for muscle attachment by enveloping bundles of muscle fibers, known as fascicles, within a skeletal muscle. This connective tissue structure provides both support and protection to the muscle fibers, allowing for efficient force transmission during muscle contraction. The perimysium also contains blood vessels and nerves that supply the muscle tissue, playing a crucial role in the muscle's function and health. While fascia is a term that can refer to various connective tissues in the body, it is not specific to individual muscles or the structure involved in bundling muscle fibers. The endomysium, on the other hand, is the delicate connective tissue surrounding each individual muscle fiber, and it is not the middle layer; rather, it is the innermost layer. The epimysium encases the entire muscle, functioning as an outer protective layer. Thus, the perimysium is distinct in its role as the connective tissue that binds groups of muscle fibers together, making it the correct answer in this context.