

Free Sample SPI Questions - SPI Actual Test Answers

SPI Practice Test questions with correct answers

Which of the following do the source and the medium determine?

- a. duty factor
- b. frequency
- c. propagation speed
- d. axial resolution - Answer ✓ d.

Axial resolution is affected by all of the following EXCEPT

- a. frequency
- b. damping
- c. spatial pulse length
- d. focusing - Answer ✓ d.

Damping in a transducer

- a. reduces the number of cycles in a pulse and increases the quality factor
- b. increases the number of cycles in a pulse and increases penetration
- c. causes poor axial and lateral resolution
- d. reduces the duty factor and increases the range of transmitted frequencies - Answer ✓ d.

Far zone beam divergence can be reduced on a single-element transducer by using

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Web-based Sonography Principles and Instrumentation (SPI) practice exam is a convenient format to evaluate and improve preparation for the exam. It is a SPI browser-based application, which means you can access it from any operating system with an internet connection and a web browser. Unlike the desktop-based exam simulation software, the Sonography Principles and Instrumentation (SPI) browser-based practice test requires no plugins and software installation.

We learned that a majority of the candidates for the exam are office workers or students who are occupied with a lot of things, and do not have plenty of time to prepare for the SPI exam. So we have tried to improve the quality of our training materials for all our worth. Now, I am proud to tell you that our training materials are definitely the best choice for those who have been yearning for success but without enough time to put into it. There are only key points in our SPI Training Materials. That is to say, you can pass the SPI exam as well as getting the related certification only with the minimum of time and efforts under the guidance of our training materials.

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With the number of people who take the exam increasing, the SPI exam has become more and more difficult for many people. A growing number of people have had difficulty in preparing for the SPI exam, and they have a tendency to turn to the study materials. However, a lot of people do not know how to choose the suitable study materials. We are willing to recommend the SPI Study Materials from our company to you.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q193-Q198):

NEW QUESTION # 193

What is the benefit of using a wall filter?

- A. Reduces aliasing
- B. Removes low-frequency signals
- C. Increases signal-to-noise ratio
- D. Increases velocity range

Answer: B

Explanation:

A wall filter in Doppler ultrasound is designed to remove low-frequency signals that are often caused by tissue motion, vessel wall movement, or other forms of motion artifact. These low-frequency signals can clutter the Doppler spectrum, making it difficult to accurately interpret blood flow velocities. By filtering out these unwanted low-frequency signals, the wall filter helps to enhance the clarity of the Doppler signal, allowing for more accurate measurements of blood flow velocities.

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 194

Which direction is blood flowing in this image?

□

- A. Right to left
- B. Indeterminate
- C. Bidirectional
- D. Left to right

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the color Doppler image, the color bar indicates that red represents flow toward the transducer and blue represents flow away from the transducer. The vessel displays red flow on the left side and blue on the right side, indicating flow direction from left to right across the image.

According to sonography instrumentation reference:

"Color Doppler maps flow direction according to the color scale. Flow toward the transducer is coded as red, and away is coded as blue." Therefore, the correct answer is B: Left to right.

- All answers are fully verified, 100% accurate, and aligned with Sonography Principles and Instrumentation documentation.

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NEW QUESTION # 195

Which statement describes the purpose of using a spectral Doppler wall filter?

- A. To eliminate the lower velocity signals
- B. To clean up the audio signals
- C. To widen the area in which the Doppler shift is sampled
- D. To eliminate the higher velocity signals

Answer: A

Explanation:

The purpose of using a spectral Doppler wall filter is to eliminate lower velocity signals. Wall filters are designed to remove low-frequency Doppler shifts caused by the motion of the vessel walls or surrounding tissues, which are generally of no diagnostic value. By eliminating these lower velocity signals, the wall filter helps to clean up the Doppler signal and reduce clutter, allowing for a clearer and more accurate display of blood flow velocities.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide
"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 196

Which artifact occurs when there is increased amplification of reflectors distal to a low-attenuating structure?

- A. Refraction
- B. Enhancement
- C. Reverberation
- D. Mirror image

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When the ultrasound beam travels through a structure that attenuates less than surrounding tissues, more energy reaches structures located deeper. This results in stronger echo signals from those deeper structures, which is visualized as a brightening or enhancement distal to the structure. This is referred to as acoustic enhancement or posterior enhancement.

Official sonography instrumentation reference states:

"Enhancement occurs as a result of reduced attenuation of the sound beam as it passes through fluid-filled or weakly attenuating structures, causing reflectors distal to the structure to appear more echogenic than normal." Therefore, the correct answer is B: Enhancement.

NEW QUESTION # 197

Which target group in this image of a tissue-mimicking phantom is used for gray-scale evaluation?

□

- A. Option C
- B. Option A
- C. Option D
- D. Option B

Answer: A

Explanation:

Gray-scale evaluation in a tissue-mimicking phantom involves assessing the uniformity and accuracy of the gray-scale representation of the tissues.

Option C typically contains structures designed to test the machine's ability to accurately depict varying levels of echogenicity, which is essential for proper gray-scale evaluation.

This area will have a range of echo intensities that help in determining the contrast resolution and the ability of the system to distinguish between different tissue types based on their gray-scale values. Reference:

ARDMS Sonography Principles and Instrumentation guidelines on tissue-mimicking phantoms and image quality evaluation.

NEW QUESTION # 198

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