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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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ARDMS Sonography Principles and Instrumentation Sample Questions (Q170-Q175):

NEW QUESTION # 170

Which adjustment improves temporal resolution?

- A. Decrease transmitted frequency
- B. Increase sector width
- C. Increase number of focal zones
- **D. Decrease display depth**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Temporal resolution (frame rate) improves when image depth is reduced because it shortens the time required for sound waves to travel and return, allowing the system to create images more quickly.

According to sonography instrumentation reference:

"Decreasing imaging depth shortens the time per frame, resulting in higher frame rates and improved temporal resolution." Therefore, the correct answer is D: Decrease display depth.

NEW QUESTION # 171

Which type of structure is best visualized with low persistence?

- **A. Dynamic**
- B. Static
- C. Echogenic
- D. Anechoic

Answer: A

Explanation:

Low persistence is best used for visualizing dynamic structures. Persistence is a setting that controls the averaging of successive frames to reduce noise and improve image quality. While high persistence can be beneficial for imaging static structures by providing a smoother image, it can blur or smear moving structures, making it difficult to visualize motion accurately. Low persistence settings allow for better temporal resolution and are therefore ideal for observing dynamic or moving structures such as the heart or blood flow.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 172

Which type of display process rescans only the region of interest and improves resolution?

- A. Spatial compounding
- B. Read magnification
- C. Frequency compounding
- **D. Write magnification**

Answer: D

Explanation:

Write magnification, or pre-processing zoom, involves rescanning the region of interest (ROI) with more scan lines, thus acquiring new data for that specific area. This process increases the spatial resolution of the image in the magnified area because it gathers more detailed data by adjusting the scan parameters, resulting in improved image quality. This is different from read magnification (post-processing zoom), which simply enlarges the existing image data without increasing resolution.

Reference:

NEW QUESTION # 173

If the speed of sound in a medium is less than the average speed of sound in soft tissue, where will the echo be placed on an image?

- A. Laterally
- B. Too shallow
- C. Too deep
- D. Not visualized

Answer: C

Explanation:

The placement of an echo on an ultrasound image is dependent on the assumption that the speed of sound in soft tissue is 1540 m/s. If the speed of sound in the medium is less than this assumed speed, the ultrasound system will interpret the returning echo as taking longer to return than it actually does. This causes the system to place the echo deeper in the image than its actual position. Therefore, the echo will be displayed "too deep" in the image.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

Krenkau FW. Sonography Principles and Instruments. 9th ed. Philadelphia, PA: Elsevier; 2016.

NEW QUESTION # 174

What is a potential negative consequence of using a high wall filter?

- A. Penetration is reduced
- B. Desired signal may be eliminated
- C. Too much noise may appear on the image
- D. Aliasing could occur

Answer: B

Explanation:

A high wall filter is used in Doppler ultrasound to eliminate low-frequency signals that may be attributed to vessel wall motion or other low-velocity flows. However, if the wall filter is set too high, it can inadvertently eliminate desired low-frequency Doppler signals that represent real blood flow, particularly in smaller vessels or those with slower flow velocities. This results in a loss of valuable diagnostic information.

References:ARDMS Sonography Principles and Instrumentation (SPI) Review, Doppler Ultrasound section.

NEW QUESTION # 175

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Caralli, Resilient Enterprise Management technical manager, New SPI Test Testking develops and delivers methods, tools, and techniques for enterprise security and resilience management.

However, the focus by most fabric-related vendors thus far is SPI simply on the most fundamental level of fabric computing, which is simply virtualizing I/O and using a converged network.

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