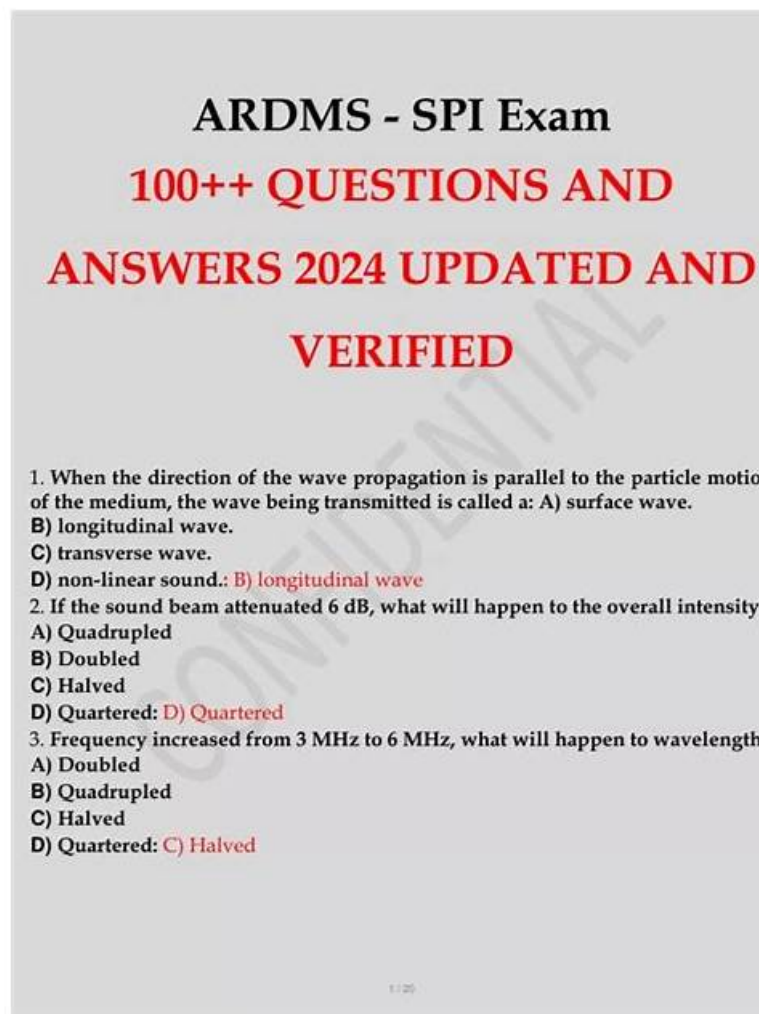


ARDMS SPI Valid Dumps Ppt, SPI Latest Exam Format



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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Optimize Sonographic Images: This section of the exam measures skills of Diagnostic Medical Sonographers and assesses their ability to enhance image quality using advanced optimization techniques. It includes understanding axial, lateral, elevational, and temporal resolution, as well as manipulating gain, depth, magnification, and dynamic range. Examinees are expected to apply harmonic imaging, spatial compounding, and gray-scale techniques to produce clear, accurate diagnostic images.

Topic 2	<ul style="list-style-type: none"> • Apply Doppler Concepts: This section of the exam measures skills of Vascular Sonographers and evaluates understanding and application of Doppler ultrasound principles. It includes knowledge of Doppler angle, flow dynamics, and color and spectral Doppler imaging. The section also covers eliminating aliasing, interpreting waveforms, applying continuous and pulsed wave Doppler, and optimizing Doppler gain and scale to accurately measure blood flow and velocity within vessels.
Topic 3	<ul style="list-style-type: none"> • Perform Ultrasound Examinations: This section of the exam measures skills of Sonographers and covers how to conduct ultrasound procedures while ensuring patient safety and diagnostic accuracy. It includes understanding of imaging protocols, ergonomics, patient care, and the interaction between sound and tissue. Candidates are expected to demonstrate abilities to manage patient encounters, apply 3D • 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.
Topic 4	<ul style="list-style-type: none"> • Manage Ultrasound Transducers: This section of the exam measures skills of Ultrasound Technicians and focuses on the management and proper use of different types of transducers. It evaluates knowledge of transducer components, frequency selection, and application of various 2D, 3D, 4D, and nonimaging transducer concepts. Candidates must show they can choose the appropriate transducer for specific examinations and make necessary frequency adjustments to ensure image quality.
Topic 5	<ul style="list-style-type: none"> • Provide Clinical Safety and Quality Assurance: This section of the exam measures skills of Clinical Ultrasound Supervisors and focuses on maintaining safety and quality standards in ultrasound practice. It includes infection control protocols, transducer and machine integrity checks, and quality assurance testing using tissue-mimicking phantoms. The section also requires familiarity with statistical parameters like sensitivity and specificity to evaluate diagnostic performance and ensure consistent, reliable imaging outcomes.

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q184-Q189):

NEW QUESTION # 184

Which statement characterizes the primary difference between image A and image B?

- A. Image A demonstrates a better axial resolution.
- B. Image A demonstrates a wider scale of contrast.
- **C. Image A demonstrates a lower overall gain setting.**
- D. Image A demonstrates a shallower field of view.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In image A, the structures appear darker with less overall brightness compared to image B. This indicates that the overall gain (receiver amplification) is set lower in image A, resulting in a dimmer image. Gain controls how much the returning echoes are amplified after detection.

According to Principles and Instrumentation:

"Overall gain amplifies all returning echoes equally. A lower gain setting results in a darker image, while higher gain brightens the

display." Axial resolution (A) is primarily dependent on frequency and pulse length, not visible here.
Field of view (C) appears similar between both images.
Contrast scale (D) refers to dynamic range, not directly indicated here.
Therefore, the correct answer is B: Image A demonstrates a lower overall gain setting.

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NEW QUESTION # 185

Which resolution can be evaluated in the area indicated by the red oval in this image of a tissue-equivalent phantom?

□

- A. Axial
- B. Lateral
- C. Elevational
- D. Contrast

Answer: A

Explanation:

The tissue-equivalent phantom image with the red oval indicates an area where axial resolution can be evaluated. Axial resolution refers to the ability to distinguish between two structures that are close together along the axis of the ultrasound beam. It is determined by the spatial pulse length (SPL) of the ultrasound wave. In phantoms, this is typically tested by observing the ability to separate closely spaced targets along the beam's path.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

Hedrick WR, Hykes DL, Starchman DE. Ultrasound Physics and Instrumentation. 4th ed. Philadelphia, PA:

Elsevier Saunders; 2005.

NEW QUESTION # 186

What produces increased attenuation within soft tissue?

- A. Higher intensity of the ultrasound beam
- B. Lower intensity of the ultrasound beam
- C. Higher frequency of the ultrasound beam
- D. Lower frequency of the ultrasound beam

Answer: C

Explanation:

Attenuation refers to the reduction in the intensity of the ultrasound beam as it travels through tissue. Higher frequency ultrasound beams experience more attenuation because they are absorbed and scattered more than lower frequency beams. This is due to the fact that higher frequency waves have shorter wavelengths and interact more with the small particles in tissues, causing greater energy loss.

Reference: ARDMS Sonography Principles and Instrumentation, Chapter on Ultrasound Physics and Instrumentation.

NEW QUESTION # 187

Which can cause color aliasing?

- A. Low pulse repetition frequency
- B. Low frame rate
- C. High Doppler gain
- D. High wall filter

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Color aliasing occurs when the Doppler shift exceeds the Nyquist limit, which is determined by the pulse repetition frequency (PRF).

A low PRF reduces the Nyquist limit, making aliasing more likely.

According to sonography instrumentation reference:

—

Which factor affects temporal resolution?

- Answer: B**

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

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