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## SPI Review Final exam 2024 Correct Question and Answers

If a depth of view goes from 8 to 16 cm, what happens to PRF...? Why?

Decreases. Because deeper images have lower PRFs

If a depth of view goes from 8 to 16 cm, what happens to duty factor...? Why?

Decreases. Because deeper images have lower duty factor

If a depth of view goes from 8 to 16 cm, what happens to PRP...? Why?

Increases. Because deeper images have lower PRPs

A sonographer changes from a 3MHz transducer to 6MHz, what happens to period and why?

Decreases. Higher frequencies have shorter periods

A sonographer changes from a 3MHz transducer to 6MHz, what happens to frequency and why?

Increases... because the new probe has higher frequency

A sonographer changes from a 3MHz transducer to 6MHz, what happens to wavelength and why?

Decreases because higher frequencies have smaller wavelengths

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## ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Manage Ultrasound Transducers:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Apply Doppler Concepts:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Optimize Sonographic Images:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Perform Ultrasound Examinations:</b> 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</li> <li>• 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.</li> </ul>

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## ARDMS Sonography Principles and Instrumentation Sample Questions (Q101-Q106):

### NEW QUESTION # 101

In this image, which artifact is demonstrated?

- A. Aliasing
- B. Range ambiguity
- **C. Mirroring**
- D. Spectral broadening

**Answer: C**

Explanation:

The artifact demonstrated in the image is mirroring. This occurs when the ultrasound beam encounters a strong reflector, such as a diaphragm or pleura, and is reflected back and forth between the object and the transducer. This results in a duplicate image appearing on the other side of the strong reflector, creating a mirror image artifact. It is crucial for sonographers to recognize and differentiate this artifact from actual anatomical structures to avoid misinterpretation.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation study materials. Diagnostic Ultrasound: Principles and Instruments by Kremkau, F. W. (latest edition).

### NEW QUESTION # 102

Which target group is used to evaluate transverse distance measurement accuracy in this tissue-mimicking phantom image?

- A. D
- **B. C**
- C. B
- D. A

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In a tissue-mimicking phantom, the group of targets aligned side-by-side (horizontally) is used to evaluate transverse (lateral) distance measurement accuracy. In the image, target group C (in red) represents the lateral spacing targets.

Principles and Instrumentation state:

"Transverse distance accuracy is evaluated using laterally spaced targets in the phantom to verify correct lateral measurement calibration." Group A (top) is typically for near field assessment.

Group B may be for axial resolution or cyst evaluation.

Group D (deep) may assess depth calibration or sensitivity.

Therefore, the correct answer is C: C.

### NEW QUESTION # 103

What does compression affect in the ultrasound image?

- A. The number of lines displayed
- **B. The shades of gray displayed**
- C. The temporal resolution
- D. The elevational resolution

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Compression reduces the dynamic range of the returning echoes, which alters how many shades of gray are displayed. It compresses the range of signal amplitudes to fit into the grayscale display range.

According to sonography instrumentation reference:

"Compression alters the dynamic range, adjusting how many shades of gray are displayed to optimize image contrast." Therefore, the correct answer is B: The shades of gray displayed.

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### NEW QUESTION # 104

Which describes the reflected frequency when a reflector is moving toward the sound source?

- **A. Increased**
- B. Attenuated
- C. Unchanged
- D. Decreased

**Answer: A**

Explanation:

When a reflector (such as red blood cells) is moving toward the sound source, the frequency of the reflected sound waves increases. This phenomenon is known as the Doppler effect. The frequency shift occurs because the motion of the reflector compresses the sound waves, leading to a higher frequency than the emitted frequency. This increased frequency is what the Doppler ultrasound system detects and uses to calculate the velocity of the moving reflector.

ARDMS Sonography Principles and Instrumentation guidelines

Hoskins, P. R., Thrush, A., Martin, K., & Whittingham, T. A. (2010). Diagnostic Ultrasound: Physics and Equipment.

### NEW QUESTION # 105

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

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

**Answer: D**

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 # 106

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