

# SPI Passleader Review, SPI Test Sample Online

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During performance of an obstetrical ultrasound exam, you adjust the system parameters to improve the image. Which of the following parameters would increase acoustic exposure?

- a) Increase gain
- b) Increase TGC
- c) Increase frequency
- d) Increase transmit power
- e) Increase frame averaging - ANSWER ☒ d) Increase transmit power

When practicing universal precautions, you should do all of the following EXCEPT:

- a) Wear gloves when there is a potential for contact with patient bodily fluids.
- b) Change gloves when moving from one patient to another.
- c) Wash hands immediately after gloves are removed.
- d) Wear face masks or eye protection whenever there is a possibility of blood splashing into your face.
- e) Wash gloves between exams for re-use from one patient to another. - ANSWER ☒ e) Wash gloves between exams for re-use from one patient to another.

Which intensity descriptor has the lowest numerical value for the characterization of a pulsed-wave ultrasound field?

- a) SATA
- b) SPTA
- c) SATP

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## ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• <b>Provide Clinical Safety and Quality Assurance:</b> 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>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 3	<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 4	<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 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 and 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.</li> </ul>

## ARDMS Sonography Principles and Instrumentation Sample Questions (Q147-Q152):

### NEW QUESTION # 147

What is the primary reason to use compression?

- A. Adjust the contrast resolution
- B. Increase line density
- C. Improve the axial resolution
- D. Reduce the focal region

**Answer: A**

Explanation:

Compression in ultrasound imaging adjusts the range of grayscale displayed, affecting the contrast resolution.

This function allows sonographers to enhance the differentiation between structures of varying echogenicities.

By modifying the contrast resolution, sonographers can better visualize subtle differences in tissue composition and improve the

diagnostic quality of the images.

Increasing contrast resolution is particularly important in differentiating between fluid-filled cysts and solid masses. Reference: ARDMS Sonography Principles and Instrumentation guidelines on image processing and contrast resolution.

#### NEW QUESTION # 148

At what Doppler angle to flow is the maximum Doppler shift frequency acquired?

- A. 30 degrees
- B. 60 degrees
- C. 0 degrees
- D. 90 degrees

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Doppler equation shows that the frequency shift is proportional to the cosine of the Doppler angle. The maximum value of cosine ( $\cos 0^\circ = 1$ ) occurs at 0 degrees - meaning the beam is parallel to flow. At this angle, the full velocity component is measured. According to sonography instrumentation reference:

"The maximum Doppler shift is obtained when the ultrasound beam is parallel (0 degrees) to blood flow." Therefore, the correct answer is D: 0 degrees.

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#### NEW QUESTION # 149

What results from increasing the packet length when using color Doppler imaging?

- A. Increased aliasing
- B. Decreased penetration
- C. Increased color noise
- D. Decreased frame rate

**Answer: D**

Explanation:

Increasing the packet length in color Doppler imaging means increasing the number of pulses used to interrogate each scan line. This improves the accuracy of velocity measurements and sensitivity to low flow velocities but has the drawback of decreasing the frame rate. A longer packet length requires more time to acquire the necessary data, which reduces the number of frames that can be processed and displayed per second. Consequently, while color Doppler imaging becomes more precise, the temporal resolution (frame rate) decreases. References:

\* ARDMS Sonography Principles and Instrumentation guidelines

\* "Color Doppler, Power Doppler, and Spectral Doppler" by Michael J. Riccabona

#### NEW QUESTION # 150

What is the term for the change in direction of a sound wave crossing a tissue boundary at an oblique angle?

- A. Attenuation
- B. Refraction
- C. Reflection
- D. Absorption

**Answer: B**

Explanation:

Refraction is the change in direction of a sound wave as it crosses a boundary between two different tissues at an oblique angle, where there is a difference in propagation speeds between the tissues. This bending of the sound wave path occurs due to the change in speed, causing the wave to change direction according to Snell's law. Refraction can result in artifacts such as edge shadowing and displacement of structures in an ultrasound image.

References:

- [illegible]

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