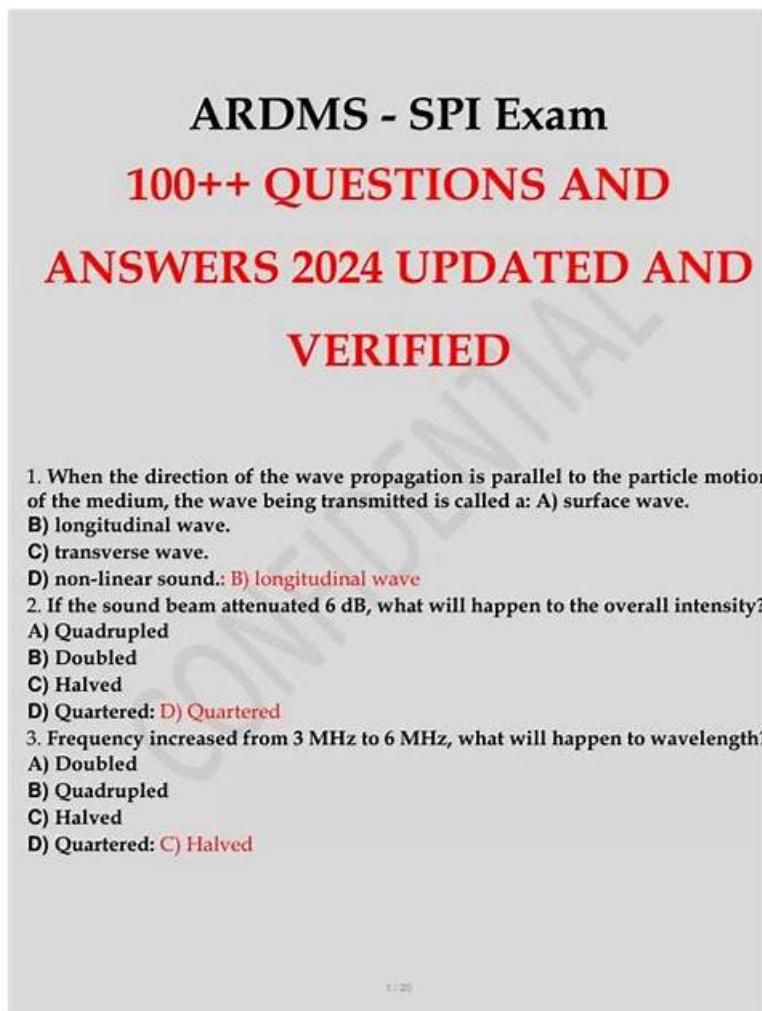


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1. When the direction of the wave propagation is parallel to the particle motion of the medium, the wave being transmitted is called a: A) surface wave.  
B) longitudinal wave.  
C) transverse wave.  
D) non-linear sound.: B) longitudinal wave

2. If the sound beam attenuated 6 dB, what will happen to the overall intensity?  
A) Quadrupled  
B) Doubled  
C) Halved  
D) Quartered: D) Quartered

3. Frequency increased from 3 MHz to 6 MHz, what will happen to wavelength?  
A) Doubled  
B) Quadrupled  
C) Halved  
D) Quartered: C) Halved

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## Test SPI Voucher | Detail SPI Explanation

The ARDMS SPI exam questions are being offered in three different formats. These formats are Sonography Principles and Instrumentation (SPI) PDF dumps files, desktop practice test software, and web-based practice test software. All these three Sonography Principles and Instrumentation (SPI) exam dumps formats contain the real Sonography Principles and Instrumentation

(SPI) exam questions that assist you in your Sonography Principles and Instrumentation (SPI) practice exam preparation and finally, you will be confident to pass the final SPI exam easily.

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

### NEW QUESTION # 147

Which factor improves axial resolution?

- A. Shorter spatial pulse length
- B. Decreased compression
- C. Narrower beamwidth
- D. Lower frequency transducer

**Answer: A**

Explanation:

Axial resolution refers to the ability to distinguish two structures that are close to each other along the direction of the sound beam. It is determined by the spatial pulse length (SPL), which is the product of the number of cycles in a pulse and the wavelength. Shorter SPL means shorter pulse duration, which leads to better axial resolution. This is because shorter pulses allow for better separation of echoes from closely spaced structures.

ARDMS Sonography Principles and Instrumentation guidelines

Kremkau, F. W. (2015). Diagnostic Ultrasound: Principles and Instruments.

### NEW QUESTION # 148

Which pulsed-wave Doppler adjustment would be appropriate to correct the aliasing seen in this image?



- A. Decrease the Doppler pulse repetition frequency.
- B. Increase the Doppler pulse repetition frequency.
- C. Decrease the spectral Doppler gain.
- D. Increase the spectral Doppler gain.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aliasing occurs in pulsed-wave Doppler imaging when the Doppler shift frequency exceeds the Nyquist limit (which is half the pulse repetition frequency, PRF). This results in a wrap-around of the Doppler signal, which appears as a reversal of flow direction (aliasing artifact).

According to standard Principles and Instrumentation references in sonography:

"To eliminate aliasing, the Doppler PRF (scale) should be increased. Increasing the PRF raises the Nyquist limit and therefore allows for higher measurable velocities without aliasing." The correct adjustment to correct this aliasing artifact is C: Increase the Doppler pulse repetition frequency.

This effectively increases the Nyquist limit and resolves the wrap-around aliasing appearance.

Options A and B (adjusting the spectral Doppler gain) would only change the appearance of the Doppler waveform (i.e., its amplitude and brightness) but would not affect aliasing. Option D (decreasing the PRF) would actually worsen the aliasing by lowering the Nyquist limit.

Therefore, the correct choice is to increase the Doppler PRF.

#### NEW QUESTION # 149

What occurs when the pulse repetition frequency is less than twice the Doppler shift frequency?

- A. Propagation speed artifact
- B. Range ambiguity
- C. **Aliasing**
- D. Spectral broadening

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aliasing happens in Doppler ultrasound when the Doppler shift frequency exceeds half of the pulse repetition frequency (the Nyquist limit). When PRF is too low for the measured Doppler shift, the signal wraps around, producing aliasing.

According to sonography instrumentation reference:

"Aliasing occurs when the Doppler shift frequency exceeds one-half the pulse repetition frequency (Nyquist limit). This results in incorrect display of flow direction and velocity." Therefore, the correct answer is C: Aliasing.

#### NEW QUESTION # 150

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

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

**Answer: C**

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 # 151

Which factor influences color flow imaging frame rate?

- A. Dynamic range

- B. Filter selection
- **C. Line density**
- D. Variance map selection

**Answer: C**

Explanation:

The frame rate in color flow imaging is influenced by several factors, one of the most significant being line density. Line density refers to the number of ultrasound lines used to create an image. Increasing line density improves spatial resolution but requires more time to acquire each frame, thereby reducing the frame rate.

Other factors such as filter selection, dynamic range, and variance map selection can affect the quality of the color flow image, but they do not have as direct an impact on frame rate as line density does.

References: ARDMS Sonography Principles and Instrumentation, Chapter on Color Doppler Imaging.

## NEW QUESTION # 152

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The Sonography Principles and Instrumentation (SPI) web-based practice test works on all major browsers such as Safari, Chrome, MS Edge, Opera, IE, and Firefox. Users do not have to install any excessive software because this SPI practice test is web-based. It can be accessed through any operating system like Windows, Linux, iOS, Android, or Mac. Another format of the practice test is the desktop software. It works offline only on Windows. Our Sonography Principles and Instrumentation (SPI) desktop-based practice exam software comes with all specifications of the web-based version.

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