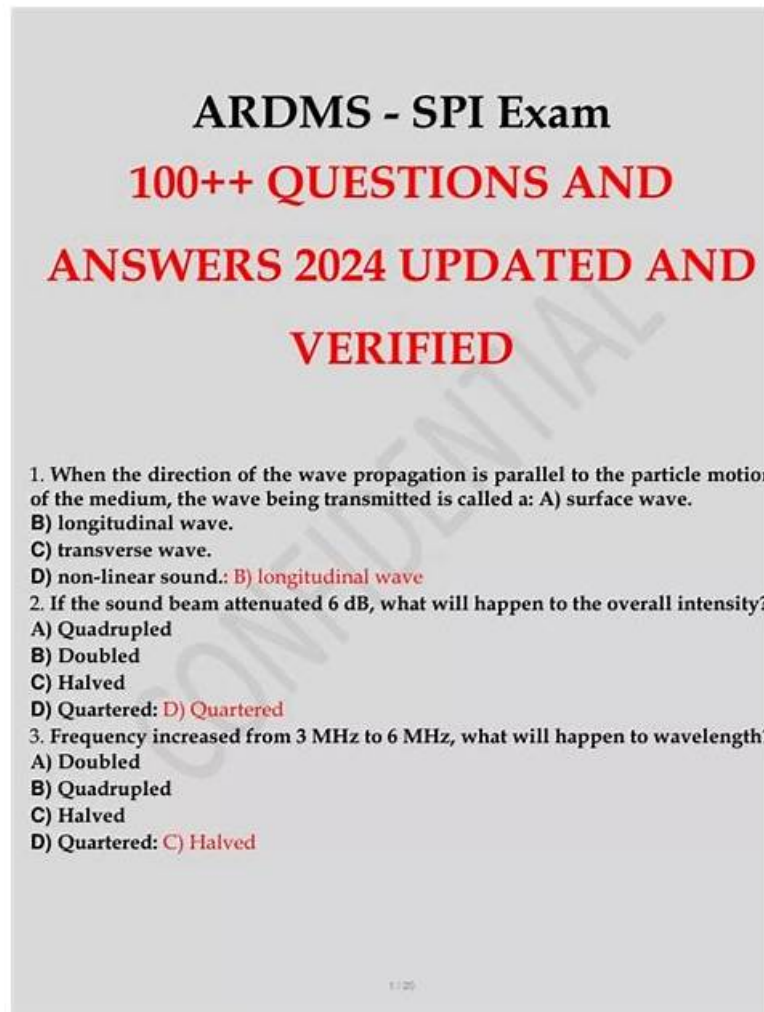


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q30-Q35):

NEW QUESTION # 30

Which component of a contrast agent causes a marked mismatch in impedance between the agent and blood?

- A. Viscous liquid
- B. Solid
- C. Serous liquid
- **D. Gas**

Answer: D

Explanation:

Contrast agents used in ultrasound imaging typically consist of microbubbles filled with gas. The significant mismatch in acoustic impedance between the gas in the microbubbles and the surrounding blood creates strong reflectors of the ultrasound waves, enhancing the echogenicity of blood and improving the visibility of blood flow and tissue perfusion. The high contrast provided by the gas-filled microbubbles makes them particularly effective as ultrasound contrast agents.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines

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

NEW QUESTION # 31

What is an advantage of using pulsed wave Doppler as compared to using continuous wave Doppler?

- **A. Ability to select sample depth**
- B. Higher echo sensitivity
- C. Decreased display of aliasing
- D. Improved temporal resolution

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The key advantage of pulsed wave Doppler is range resolution, meaning the operator can select a specific depth (sample volume) for measuring velocities. Continuous wave Doppler does not provide this capability, as it samples velocities along the entire beam path.

According to sonography instrumentation reference:

"Pulsed wave Doppler allows selection of sample volume depth, providing range resolution which continuous wave Doppler lacks."

Therefore, the correct answer is B: Ability to select sample depth.

NEW QUESTION # 32

Which characteristic of ultrasound transmission is directly proportional to an increase in frequency?

- A. Pulse duration
- B. Wavelength
- **C. Attenuation**
- D. Penetration

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As frequency increases, attenuation (energy loss due to absorption, scattering, and reflection) also increases.

This limits penetration but improves resolution for superficial structures.

According to sonography instrumentation reference:

"Attenuation increases directly with frequency, limiting penetration but enhancing resolution in superficial imaging." Therefore, the correct answer is C: Attenuation.

-

NEW QUESTION # 33

Which system control adjusts amplification of signals as a function of depth?

- A. Output power
- B. Reject
- C. Transmit focus
- **D. Time gain compensation**

Answer: D

Explanation:

Time Gain Compensation (TGC), also known as Depth Gain Compensation (DGC), is used to adjust the amplification of ultrasound signals based on their depth. As ultrasound waves travel deeper into the tissue, they become weaker due to attenuation. TGC compensates for this attenuation by progressively increasing the gain for deeper echoes, ensuring that structures at different depths appear with similar brightness on the ultrasound image. This function is critical for creating a uniform image and accurately visualizing deeper anatomical structures.

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 34

Which color Doppler control allows for reassignment of red and blue to represent flow direction?

- A. Color gain
- **B. Color invert**
- C. Color priority
- D. Color threshold

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In color Doppler imaging, the default color map assigns red and blue to represent flow direction relative to the transducer (usually red toward, blue away). The color invert control reverses this assignment.

According to sonography Principles and Instrumentation:

"The color invert control reverses the baseline of the color map, swapping red and blue assignments for flow direction."

* Color priority adjusts the overlay of color vs grayscale.

* Color gain controls amplification of the Doppler signal.

* Color threshold sets minimum amplitude to display color.

Therefore, the correct answer is D: Color invert.

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NEW QUESTION # 35

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