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Ans: B < 0.1mm

Explanation:
Radius of the diffraction disc is directly proportional to the wavelength of the light used for the given hole. We know that the wavelength of an X-ray is less than the wavelength of visible light. If an X-ray is passed through the same setup, the radius of the diffraction disc will be less than 0.1m.

Q98. Is the ratio of frequencies of UV rays and IR rays in the glass more than, less than or equal to 1? **1 Mark**
A Insufficient data B Equal to 1 C Less than 1 D More than 1

Ans: D More than 1

Explanation:
The ratio of frequencies of UV rays and IR rays in the glass is more than 1. This is because the frequency of UV rays is greater than that of infrared rays. This situation is applicable in glass or vacuum or air.

Q99. An electron having a charge e moves with a velocity v in X-direction. An electric field acts on it in Y-direction? **1 Mark**
The force on the electron acts in:
A Positive direction of Y-axis B Negative direction of Y-axis.
C Positive direction of Z-axis. D Negative direction of Z-axis.

Ans: B Negative direction of Y-axis.

Q100. The work function of a metal is independent of: **1 Mark**
1. Nature of the surface of the metal.
2. Dimensions of the metal.
3. Properties of the metal.
4. Abundance of the metal.
A (i) only. B (i) and (iii). C (ii) and (iii). D (ii) and (iv).

Ans: D (ii) and (iv).

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which outcome is an advantage of more pulses in an ensemble length?

- **A. Increased accuracy of velocity measurement**
- B. Increased line density
- C. Improved temporal resolution
- D. Reduced ghosting artifact

Answer: A

Explanation:

Ensemble length, also known as packet size or Doppler packet, refers to the number of pulses used to calculate each Doppler measurement. Increasing the number of pulses in an ensemble length improves the accuracy of velocity measurements by providing more data points for the Doppler shift analysis. This leads to better estimation of mean velocities and reduces the variability of the measurements, although it may slightly decrease temporal resolution due to the longer time required to acquire the data.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Edelman, S. K. (2017). Understanding Ultrasound Physics.

NEW QUESTION # 21

Which factor causes posterior acoustic enhancement?

- A. Low-frequency transducer
- B. Strongly attenuating structure
- **C. Weakly attenuating structure**
- D. High-frequency transducer

Answer: C

Explanation:

* High-Frequency Transducer: These provide better resolution but do not directly cause posterior enhancement.

* Low-Frequency Transducer: These provide better penetration but are not the cause of posterior enhancement.

* Strongly Attenuating Structure: This would cause acoustic shadowing rather than enhancement.

* Weakly Attenuating Structure: Structures that attenuate the ultrasound beam less than the surrounding tissues allow more sound waves to pass through, resulting in increased brightness or "enhancement" behind the structure.

References:

"Ultrasound Physics and Instrumentation" by Frank Miele

ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 22

How can spectral Doppler cross talk be reduced?

- **A. By decreasing the Doppler gain**
- B. By increasing the Doppler pulse repetition frequency (PRF)
- C. By decreasing the Doppler wall filter
- D. By adjusting the Doppler baseline

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Cross talk (spectral mirror artifact) appears as a duplication of the spectral waveform above and below the baseline. One primary cause is excessive Doppler gain, which amplifies weak signals and noise symmetrically. Reducing gain minimizes this artifact.

Principles and Instrumentation state:

"Cross talk in spectral Doppler may result from high gain settings. Lowering the gain can reduce or eliminate this artifact."

* PRF adjustments affect aliasing, not cross talk.

* Baseline shifts affect waveform positioning.

* Wall filter affects low-frequency signals but not cross talk.

Therefore, the correct answer is A: By decreasing the Doppler gain.

NEW QUESTION # 23

Which adjustment was made to change image A to produce image B?

□

- A. Decreased overall gain
- B. Increased dynamic range
- C. Increased overall gain
- D. Decreased dynamic range

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Image B, compared to Image A, you can observe a higher contrast image with darker darks and brighter brights, indicating that dynamic range has been reduced. Decreasing dynamic range results in less grey scale, creating a more black-and-white appearance and emphasizing contrast differences.

According to sonography instrumentation reference:

"Reducing dynamic range increases image contrast by narrowing the range of displayed echo intensities, making the image appear more black and white." Therefore, the correct answer is D: Decreased dynamic range.

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NEW QUESTION # 24

Which change would allow low velocities to be displayed in this spectral Doppler image?

□

- A. Increase transmitted frequency
- B. Decrease wall filter
- C. Increase sample volume size
- D. Decrease compression

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the spectral Doppler display shown, the wall filter setting determines the lower limit of velocity signals that are displayed. A high wall filter removes low-velocity signals (such as end-diastolic flow or slow venous flow), while a lower wall filter allows both high and low velocities to be visualized.

According to the official Principles and Instrumentation documents:

"The wall filter eliminates low-frequency Doppler shifts, which correspond to low-velocity blood flow or motion artifacts. Decreasing the wall filter allows display of low-velocity flow components that may otherwise be filtered out." Decreasing compression (A) adjusts dynamic range but does not influence velocity detection.

Increasing sample volume size (B) affects spatial resolution and signal amplitude but not velocity thresholds.

Increasing transmitted frequency (C) may improve sensitivity but does not directly control the display of low velocities.

Therefore, the correct answer is D: Decrease wall filter.

NEW QUESTION # 25

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