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All these SPI certification exam benefits will not only prove your skills but also assist you to put your career on the right track and achieve your career objectives in a short time period. These are all the advantages of the Sonography Principles and Instrumentation (SPI) certification exam. To avail of all these advantages you just need to enroll in the ARDMS exam dumps and pass it with good scores. To pass the SPI exam you can get help from Test4Cram ARDMS Questions easily.

## ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Optimize Sonographic Images: The topic focuses on optimization of axial resolution concepts, optimization of lateral resolution concepts, optimization of elevational resolution concepts, optimization of temporal resolution concepts, and magnification techniques.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Apply Doppler Concepts: It discusses Doppler wall filter concepts, Doppler sample gate concepts, y color priority over gray scale concepts, and concepts related to color Doppler map. Furthermore, it discusses concepts to eliminate aliasing, continuous wave Doppler concepts, and color Doppler scale concepts.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D</li><li>4D transducer concepts, and nonimaging transducer concepts.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Provide Clinical Safety &amp; Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.</li></ul>

Topic 5	<ul style="list-style-type: none"> <li>• Perform Ultrasound Examinations: This topic discusses patient care, sonographic ergonomic techniques, echogenicity, reverberation, and potential bioeffects. It also discusses beam steering concepts, panoramic imaging, 3D</li> <li>• 4D concepts, and contrast imaging concepts.</li> </ul>
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## ARDMS Sonography Principles and Instrumentation Sample Questions (Q107-Q112):

### NEW QUESTION # 107

What does compression affect in the ultrasound image?

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

**Answer: D**

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.

### NEW QUESTION # 108

According to Poiseuille's law, a change in which parameter would have the greatest influence on blood flow?

- A. Pressure gradient
- B. Viscosity of the fluid
- C. Length of vessel
- D. Vessel radius

**Answer: D**

Explanation:

According to Poiseuille's law, the flow rate of a fluid through a vessel is directly proportional to the fourth power of the vessel's radius. Therefore, a small change in the radius of the vessel has a much larger effect on blood flow compared to changes in pressure gradient, length of the vessel, or viscosity of the fluid.

ARDMS Sonography Principles and Instrumentation guidelines

Poiseuille's law in medical physics and hemodynamics literature.

### NEW QUESTION # 109

What is an advantage of pulsed-wave Doppler over continuous-wave Doppler?

- A. Range resolution
- B. Increased sensitivity to slow flow
- C. High signal-to-noise ratio
- D. Unlimited maximum detectable velocity

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The primary advantage of pulsed-wave Doppler is its ability to provide range resolution. This means the operator can select a

specific depth (sample volume) from which Doppler signals are acquired, allowing precise localization of blood flow velocities.

According to sonography instrumentation reference:

"Pulsed-wave Doppler allows for range resolution, enabling velocity measurements at a specific depth along the ultrasound beam path." Continuous-wave Doppler does not have range resolution, as it measures velocities along the entire beam path.

Therefore, the correct answer is C: Range resolution.

### NEW QUESTION # 110

What is the term for an ultrasound system's ability to display low-level echoes?

- A. Slice thickness
- B. Lateral resolution
- C. **Sensitivity**
- D. Axial resolution

**Answer: C**

Explanation:

Sensitivity is the term for an ultrasound system's ability to display low-level echoes. It refers to the system's capacity to detect and accurately display weak echoes returning from tissues. High sensitivity allows the sonographer to visualize structures that produce faint echoes, such as small or low-contrast lesions. This parameter is critical for ensuring that subtle pathological changes are not missed during imaging. Reference:

ARDMS Sonography Principles and Instrumentation guidelines

"Sonography: Principles and Instruments" by Joan P. Baker and Marveen Craig

### NEW QUESTION # 111

What combination of transmitting frequency and depth produces the greatest ultrasound beam attenuation?

- A. 7.5 MHz at 2 cm
- B. 5 MHz at 2 cm
- C. 5 MHz at 5 cm
- D. **7.5 MHz at 5 cm**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Attenuation increases with both frequency and depth. The highest attenuation occurs at the highest frequency and greatest depth. 7.5 MHz attenuates faster than 5 MHz, and 5 cm represents deeper tissue penetration.

Principles and Instrumentation state:

"Attenuation is directly proportional to frequency and path length: Attenuation = Frequency  $\times$  Depth  $\times$  Attenuation Coefficient."

Therefore, the correct answer is D: 7.5 MHz at 5 cm

### NEW QUESTION # 112

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