## ULTRASOUND PHYSICS - MOCK EXAM QUESTIONS FOR SPI (ANSWERED) TO SCORE A+

Which of the following transducers will have the worst axial resolution?

- a. Vector array, 3 MHz
- b. Linear Sequential Array, 6 MHZ
- c. Linear Phased Array 7.5 MHZ
- d. Annular Array, 6 MHz. Answer Vector array, 3 MHz.

A sound wave is traveling in the body and propagates from muscle to air. What percentage of the sound wave is most likely reflected at the muscle-air boundary?

- a. 0.5%
- b. 75%
- c. 25%
- d. 5%
- e. 99% Answer 75%

Which of the following lists is in decreasing order?

- a. mega, kilo, deca, milli, nano
- b. centi, mill, kilo, mega, nano
- c. micro, milli, deci, kilo, mega
- d. micro, kilo, mega, deci, milli
- e. mega, micro, deci, milli, hecto Answer mega, kilo, deca, milk, nano

During a diagnostic exam, which of these statements is most correct when describing the pulsed echo characteristics of an ultrasound system.

- a. The listening time may be one-thousand times longer than the pulse duration.
- b. the pulse duration is longer than the pulse repetition period.
- c. The pulse duration is similar to the listening time.
- d. The duty factor has a value close to 1
- The pulse repitition period is similar to the period. Answer The listening time may be one-thousand times longer than the pulse duration.

Which of the following parameters is determined by both the ultrasound system and the medium through which the sound travels?

- a. period
- b. frequency
- c. temperature
- d. wavelength
- e. velocity of the sound Answer wavelength

# **Ultrasound Physics Mock Exams**

Raffaela Di Napoli

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