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Question 5:

Score : 0/1

A 60.0-cm long plastic tube is open at both ends and resonating in its first harmonic. The wavelength of the sound which will produce this resonance is _____.

- 15.0cm
- 30.0cm✘
- 45.0cm
- 120.0cm✔

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Question 6:

Score : 1/1

Which one of the following factors determines the pitch of a sound?

- The amplitude of the sound wave
- The frequency of the sound wave✔
- The phase of different parts of the sound wave
- The speed of the sound wave

In order for two sound waves to produce audible beats, it is essential that the two waves have

-----.

- the same amplitude
- slightly different amplitudes
- slightly different frequencies ✓
- the same frequency

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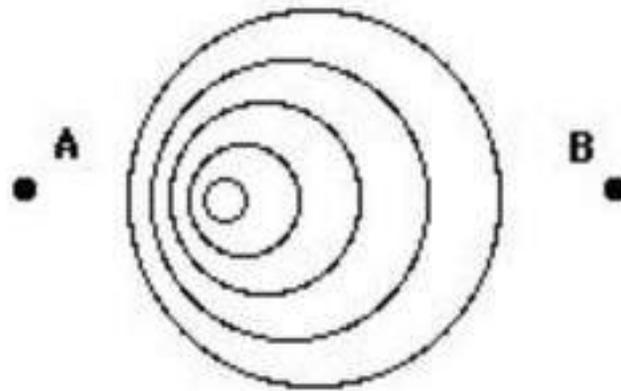
Question 2:

Score : 0/1

Which of the following statements are TRUE of the concept of resonance and beats? Identify all that apply.

- The result of two objects vibrating in resonance with each other is a vibration of larger amplitude. ✓
- All musical instruments have a natural frequency or set of natural frequencies at which they will vibrate; each frequency corresponds to a unique standing wave pattern. ✓
- Beats result when two sounds of same frequencies interfere. ✗
- Two sounds with a frequency ratio of 2:1 would produce beats with a beat frequency of 2 Hz.

Consider the diagram below of several circular waves created at various times and locations.
The diagram illustrates _____.



- High frequency for detector A ✓
- Low frequency for detector A
- High frequency for detector B
- same frequency for detector A and B

Question 10:

Score : 0/1

Consider the motion of waves in a wire. Waves will not travel (or very less speed) in a _____ wire.

- Tight and heavy
- light and tight ✗
- loose and heavy ✓
- loose and light

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Question 3:

Score : 1/1

The quality of the sound is called dissonance.

- True
- False ✓

Question 4:

Score : 0/1

. A vibrating tuning fork is held above a closed-end air column, forcing the air into resonance. If the sound waves created by the tuning fork have a wavelength of W , then the length of the air column could NOT be _____.

- $1/4 W$ ✗
- $2/4 W$ ✓
- $3/4 W$
- $5/4 W$

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Question 7:

Score : 1/1

Which of the following statements are TRUE of sound waves? Identify all that apply.

- A sound wave is a Transverse wave.
- A sound wave is a means of transporting energy without transporting matter. ✓
- Sound cannot travel through a vacuum. ✓
- Sound wave has alternate crest and troughs

Question 8:

Score : 1/1

An object is vibrating at its natural frequency. Repeated and periodic vibrations of the same natural frequency impinge upon the vibrating object and the amplitude of its vibrations are observed to increase. This phenomenon is known as _____.

- beats
- fundamentals
- overtone
- resonance ✓

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