

Sound

Question Paper

Course	CIE IGCSE Physics
Section	3. Waves
Topic	Sound
Difficulty	Easy

Time Allowed	10
Score	/5
Percentage	/100

Question 1

Which of the frequency ranges below is completely audible by a human who has average hearing?

- A. 200 Hz to 200 kHz
- B. 5 Hz to 50 kHz
- C. 50 Hz to 5 kHz
- D. 50 kHz to 50 MHz

[1 mark]

Question 2

A tuba player plays a loud note on her tuba.

She then plays a quiet note of the same pitch.

Which property of the sound wave she produced has changed?

- A. Frequency
- B. Wavelength
- C. Amplitude
- D. Speed

[1 mark]

Question 3

A high frequency note is played on a violin.

The violinist then reduces the frequency of the note.

What change in the note do the audience hear?

- A.** Pitch increases
- B.** Pitch decreases
- C.** Volume increases
- D.** Volume decreases

[1 mark]

Question 4

Sound wave W has amplitude, A , and frequency, f .

Sound wave X is louder and lower in pitch than sound wave W.

What can be said about the amplitude and frequency of sound wave X?

	Amplitude	Frequency
A	higher than A	higher than f
B	higher than A	lower than f
C	lower than A	higher than f
D	lower than A	lower than f

[1 mark]

Question 5

Extended tier only

Which of the following is **not** a use of ultrasound?

- A. Scanning a fetus during pregnancy
- B. Non-destructive testing of materials such as to find leaks in copper pipes
- C. Mapping with sonar
- D. Identifying broken bones

[1 mark]