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## Basic Audio Engineering - Chapter #1 Quiz

1. Atmospheric pressure refers to:

**Your Answer:** The density of air molecules around us at all times.

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2. Sound is made possible through the \_\_\_\_\_ of a sound source displacing the air molecules around it.

**Your Answer:** vibration

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3. Frequency in terms of waveform characteristics refers to:

**Your Answer:** The perceived pitch of a sound

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4. \_\_\_\_\_ is the primary frequency of a sound. The sound may have overtones or lower harmonics present however the primary frequency content is called this.

**Your Answer:** Fundamental Frequency

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5. Sound travels at roughly \_\_\_\_\_ miles per hour.

**Your Answer:** 740-770

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6. The tympanic membrane, also known as the \_\_\_\_\_, is a flap of skin-like material that acts as a diaphragm - receiving sound pressure waves and transmitting them through the three bones in the inner-ear.

**Your Answer:** ear drum

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7. \_\_\_\_\_ is the study of how sounds are perceived by the brain.

**Your Answer: Psychoacoustics**

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8. Timbre refers to:

**Your Answer: The harmonic frequency content that makes up the sound of a specific instrument.**

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9. ADSR stands for:

**Your Answer: Attack, Decay, Sustain, Release**

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10. Auditory \_\_\_\_\_ happens when one sound affects the perception of another sound by our brain either through amplitude or frequency content.

**Your Answer: masking**

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11. Amplitude is the measure of \_\_\_\_\_ and is measured in \_\_\_\_\_.

**Your Answer: loudness, decibels**

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12. Sound pressure waves are made up of two regions, \_\_\_\_\_ (high pressure region) and rarefactions (low pressure region).

**Your Answer: compression**

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13. Acoustic \_\_\_\_\_ occur(s) when two sounds close in frequency are played together. The result is an audible phase interaction.

**Your Answer: beats**

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14. The \_\_\_\_\_ is a snail shaped organ that contains reed-like fibers connected to hair follicles that vibrate at a resonant frequency.

**Your Answer: cochlea**

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15. \_\_\_\_\_ is the measure of the amount of compressions and rarefactions (complete cycles) that occur in 1 second of time.

**Your Answer:** Frequency

## Assignment Grade

**Overall Grade:** A

**Instructor Notes:**

100% (15 / 15)

**Graded by:** auto

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