

Name _____

Acoustics in Action: Real-World Applications in Engineering and Design

Multiple Choice Questions

1. What is the primary focus of architectural acoustics?
 - a) Designing skyscrapers
 - b) Creating quiet libraries
 - c) Controlling sound in buildings
 - d) Designing roadways

2. How do noise-canceling headphones work?
 - a) They block all sound waves.
 - b) They generate sound waves that cancel out background noise.
 - c) They amplify background noise.
 - d) They create silence by absorbing all sound.

3. What is the role of underwater acoustics in marine research?
 - a) Mapping the ocean floor
 - b) Studying cloud formations
 - c) Tracking meteor showers
 - d) Analyzing soil composition

4. How do acoustical engineers contribute to music and sound systems?
 - a) They design quieter factories.
 - b) They develop noise-canceling headphones.
 - c) They optimize sound quality in concert halls and theaters.
 - d) They design underwater vehicles.

5. What is the primary function of medical ultrasound?
 - a) Detecting submarines
 - b) Monitoring pregnancies
 - c) Enhancing concert hall acoustics
 - d) Creating noise barriers

