Acoustics and Electromagnetism Level 1 Quiz – Answer Key

1. What is electricity?

Select one:

1. A force that attracts or repels objects.
2. A type of magnet.
3. The flow of electrons, tiny particles that carry energy.
4. A source of light.
5. What is magnetism?

Select one:

1. A flow of energy like electricity.
2. A force that can attract or repel objects, like iron.
3. A type of current.
4. A form of heat.
5. Opposite poles of a magnet attract each other.

Select one:

1. True
2. False
3. What happens when an electric current travels through a wire?

Select one:

1. It creates heat.
2. It produces a magnetic field around the wire.
3. It stops the flow of electricity.
4. It changes the wire's color.
5. How can we increase the strength of a magnetic field created by electricity?

Select one:

1. By using a longer wire.
2. By wrapping the wire into a coil.
3. By cooling the wire.
4. By using a thicker wire.
5. What is it called when a moving magnetic field creates electricity in a wire?

Select one:

1. Electromagnetism.
2. Induction.
3. Conduction.
4. Static electricity.
5. Which of the following can generate electricity by using electromagnetism?

Select one:

1. A wind turbine.
2. A light bulb.
3. A heater.
4. A refrigerator.
5. Which of these is an example of using electromagnetism in daily life?

Select one:

1. A toaster.
2. A speaker.
3. A bicycle.
4. A water bottle.
5. You can use a magnet to generate electricity if you move it near a coil of wire.

Select one:

1. True
2. False
3. What device uses electromagnetism to take pictures of the inside of the human body?

Select one:

1. A speaker.
2. A phone.
3. A microwave.
4. An MRI machine.