

Name:

Date:

Class:

Applications of ECG and EMG Post-Quiz **Answer Key**

Directions

Answer the following questions the best you can.

1. List and describe a heart disease that can be detected by an ECG:

Heart arrhythmia: irregular heart rate that can lead to further complications such as stroke or heart failure

OR

Left ventricle hypertrophy: heart muscle is thickened, preventing it from pumping efficiently

2. List two applications of an EMG:

Used to diagnose muscular and neuromuscular problems and disorders such as muscle inflammation, pinched nerves, muscular dystrophy, and ALS

Evaluate health of athlete's muscles

Research muscle activity and abnormalities

Tailor workouts for athletes

3. What is the purpose of an electrode in an EMG or ECG test?

The electrode(s) measure the electrical activity (or voltage) of the muscle of interest

4. Briefly describe what occurs in the body of an individual with ALS:

Individuals with ALS experience progressive muscle deterioration, which results in body deformities and inability to move affected limbs