

Lab Essay Assignment: CARDIOVASCULAR SYSTEM

The topics for this week's Lab Essay Assignment are detailed below. You may take your pick of any of these topics. Your essay will be worth up to 5 points, and will be submitted to your TA's the next time you meet for lab. In order to receive full credit, you MUST follow ALL of the basic essay guidelines as described on the BIO 102 course web site. These guidelines are very simple and straightforward, however failure to follow them will result in a loss of points and potentially even a zero on the assignment. A full list of essay guidelines, as well as a sample essay and other helpful links, can be found at the following web address:

<http://www.eeb.uconn.edu/courses/bio102/Essayguidelines.htm>

<p style="text-align: center;"><u>Topic A: Artificial Heart</u></p> <p>Describe the history and function of the artificial heart. What are the advantages and disadvantages associated with receiving one of these devices? What types of patients are generally eligible for receiving them?</p>	<p style="text-align: center;"><u>Topic B: Heart Attack</u></p> <p>Describe the event known as a myocardial infarction, or heart attack. What exactly happens to the heart during a heart attack, and can cause a heart attack in the first place? What life-saving steps can a doctor or EMT take to treat someone who has had or is having a heart attack?</p>
<p style="text-align: center;"><u>Topic C: Heart Transplant</u></p> <p>Provide an overview of a cardiac transplantation, or a heart transplant. How is the patient kept alive during such a procedure? Where do the donor hearts come from, and what type of patient is typically a candidate for receiving a donor heart? What are the big risks of such a procedure, and how long can transplant patients typically expect to live?</p>	<p style="text-align: center;"><u>Topic D: Cardiovascular Health</u></p> <p>Outline the steps a person can take in order to promote a healthier heart. How can proper exercise positively influence someone's cardiovascular health? In what ways can a healthy diet lead to a healthier heart, or for that matter, how can a poor diet affect a person's heart or overall cardiovascular health? Be sure to cite specific examples.</p>