

Sensory Perception Lab Make-Up
Biology 1102

Name: _____
Section: _____

This exercise replaces your quiz and homework grade (15 pts) for the Sensory Perception lab. First read through the Sensory Perception section of your lab manual to familiarize yourself with the terminology necessary for understanding this lab. You must then answer all of the questions found below (10 pts). All responses must be typed in YOUR OWN WORDS and in COMPLETE SENTENCES. Additionally, you are required to complete a short essay (5 pts). The topic and guidelines are on the next page. If you have any questions, feel free to contact your TA.

1. (1 pt) Describe the path that light takes through the human eye.
2. (2 pt) In your own words, write the function for the following structures of the eye:
 - a. Cornea
 - b. Optic nerve
 - c. Iris
 - d. Vitreous humor
 - e. Retina
 - f. Ciliary muscle
 - g. Choroid
 - h. Lens

Make a schematic drawing of a human eye (use your lab manual for help). Label all the above structures in your drawing.

5. (1 pt) In the skin there are the two specialized sensory structures. Name both, as well as their functions.
6. (1 pt) Do you need corrective lenses? If yes, are you nearsighted or farsighted? What does it mean to be nearsighted? What does it mean to be farsighted?
8. (1 pt) Chemoreception is used for which two senses?
9. (1 pt) Describe the path that sound takes through the human ear.
10. (1 pt) You are a student on the UConn campus, and live near Horse Barn hill. In the fall, the fields are fertilized with manure. When you first come back to your dorm, your sense of smell is assailed by this strong and unpleasant odor. After some time has passed, however, you notice that you don't smell the manure any more. Explain what has happened with your sense of smell, and use correct terminology.
11. (2 pts) In a brief paragraph, describe in your own words how humans hear. Make sure to mention all the parts of ear anatomy.

Make-up Assignment Essay: Sensory Perception

The following constitutes the essay portion of your lab make-up, with the topic provided below. Your essay will be worth up to 5 points. Basic guidelines for this essay are listed below.

Essay Topic:

Explain the physical mechanisms involved with color vision vs. non-color vision. Do many creatures with color vision tend to be nocturnal or diurnal? Why is this? Provide an example of a non-human organism that can see color and one that cannot, and explain the advantages and disadvantages of their particular visual strategy.

Guidelines for writing make-up essays:

Please note: Your grade will be reduced if these guidelines are not followed.

1. Everything must be on one page only, single-sided, NO exceptions!
2. Must include your Name, Lab Section Number and the Title (the question or assigned topic) at the top.
3. 300-350 words, not including Name, Lab Section, Title or References.
2. Single-spaced
3. Typed
4. 12-point font size
5. Must use Times, Times New Roman, or Arial font style
6. Everything must be stated in your own words. Do not plagiarize!
7. Must include at least Two References Cited (only one of which can be Wikipedia).