

Name \_\_\_\_\_

Biology 102, Spring 2008

Sec. # \_\_\_\_\_

Lab 6: Sensory Perception

Answer the following questions in your OWN words and in COMPLETE sentences.

1. (2 pts) a. When we say that somebody has 20/50 vision, what do we actually mean? What does 20 refer to and what does 50 refer to? Be specific.  
  
b. Is person with 20/50 vision nearsighted or farsighted.
  
2. (1 pt) The lens in your eye functions in focusing. Which other part also acts as a lens and helps in focusing?
  
3. (2 pts) This table is modified from Hearing Damage and Loud Music website (<http://www.abelard.org/hear/hear.htm>). It tells you for how long you can be exposed to certain noise levels before hearing damage begins to occur. Your task is to use any source of information (including the stated website) and find TWO different activities that correspond to the each noise levels. Describe each in SPECIFIC terms.

Loudness	Time	Activity
40 dB		
60 dB		
70		
80		
85 dB		
90 dB	8 hours	
100 dB	2 hours	
105 dB	1 hour	
110-130 dB	3.75-30 minutes	
120 dB	7.5 minutes	
130 dB	3.75 minutes	
140 dB	0 minutes	
180	0 minutes	

4. (2 pts) Below is a list of the major structures involved in the auditory perception (hearing). Using the blank spaces to the left, arrange these structures according to the order in which sound waves/nerve impulses travel in a functional ear.

\_\_\_\_\_ tympanic canal  
\_\_\_\_\_ ear bones (hammer, anvil, & stirrup)  
\_\_\_\_\_ hair cells  
\_\_\_\_\_ pinna  
\_\_\_\_\_ cochlea  
\_\_\_\_\_ auditory nerve  
\_\_\_\_\_ vestibular canal  
\_\_\_\_\_ brain  
\_\_\_\_\_ tympanic membrane (ear drum)  
\_\_\_\_\_ auditory canal

5. (1 pt) Describe a situation, OTHER than in lab, where you habituated to a smell.

6. (2 pts) Next week in lab we will be working on the Genetics lab activity. Read ahead on pages 87-104 of your manual, then complete the following problem:

Consider a cross of a **heterozygous** dominant smooth coated rabbit with another **heterozygous** dominant smooth coat rabbit. In this scenario “A” stands for smooth coat and “a” stands for curly coat. Depict this cross on the Punnett square and predict what the possible offspring would be.


Genotypic Ratio: \_\_\_\_\_

Phenotypic Ratio: \_\_\_\_\_