LAB Virtual Eye Dissection

Last Name ___________________, First ___________________ per ___

ACTIVITY 1
Start by reviewing the parts of the eye. Go to the virtual eye dissection website: Review the parts of an eye and then do the dissection.
http://www.eschoolonline.com/company/examples/eye/eyedissect.html

ACTIVITY 2
Go to http://www.exploratorium.edu/learning_studio/cow_eye/index.html
Click “Watch onLine” Answer the questions as you watch each video.

Step 1 "The Cow’s Eye"
1. Why does the Exploratorium dissect cow eyes? ____________________
   ______________________________________________________________________
2. What is one major difference between a cow’s eye and a human’s eye? __
   ______________________________________________________________________

Step 2
3. How do cows move their eyes? __________________________
4. How many more muscles does a human eye have than a cow’s eye? _____

Step 3
5. What is the function of the fat that surrounds the eye? _____
   ______________________________________________________________________

Step 4
6. What is the function of the cornea? __________________________
7. When the student cut the cornea, what happened? _________________
   ______________________________________________________________________
8. What is the function of the aqueous humor? _________________________
   ______________________________________________________________________

Step 5
9. What is the white part of the eye called? ________________________

7th LAB Virtual Eye Dissection
Step 6
10. What is the function of the pupil? __________________________
11. What part of the eye gives it its color? ___________
12. How does the eye let more light in? __________________________
13. How is the iris of a cow different than a human iris? ___________

Step 7
14. What is the jelly-like substance that surrounds the lens? __________
15. Why is the vitreous humor clear? __________________________

Step 8
16. What is the function of the lens? __________________________
17. Describe the image of the student as you look through the lens. _____

Step 9
18. When you look through the lens at letters in a newspaper, what happens to the images? __________________________

Step 10
19. Where is the retina located in the eye? __________________________
20. What kind of cells are contained in the retina? __________________________

Step 11
21. Why do we have a blind spot in our eyes? __________________________
22. What would happen if the retina gets folded and wrinkled? ________

Step 12
23. What is the function of the optic nerve? __________________________
24. Why do cats and cows eyes glow at night but human eyes don't? _____