## LAB 8: THE NERVOUS SYSTEM Don't forget to answer all questions from your class handout as well.

1. Write one or two key words associated with each part of the brain: Occipital lobe= Cerebellum= Pons= Medulla oblongata= Temporal lobe= Hypothalamus

cerebrum= parietal lobe= corpus callosum= frontal lobe= pituitary gland= olfactory lobe=

2. Describe the relevance of each exercise to the lab (i.e. what specific anatomical structures are involved). Use as many specific anatomical structures and functions as you can.

Patellar reflex Accomodation Blind spot Tuning fork test Touch receptors Heat/cold exercise

3. Put the following structures in order, from light entering eye to perception of a visual image: optic chiasma, choroid, cornea, occipital lobe, vitreous humor, pupil, optic nerve, retina, aqueous humor.

4. What is the difference between the cornea and the lens: describe shape, location, and function.

5. What is the difference between the choroid and the sclera: describe shape, location, and function.

6. What is the difference between the cilliary body ad the iris: describe shape, location, and function.

7. What are the sensory receptors (*cells!*) of the eye and of the ear?

8. Put the following structures in order from sound waves in air to perception of a sound: cochlea, auditory canal, hammer (maleus), stirrup (stapes), hair cells, temporal lobe, oval window, anvil (incus), tympanic membrane (eardrum), pinna.

9. Is there air or liquid in the following structures: semicircular canals middle ear (where the 3 bones are) auditory tube (eustachian tube) auditory canal

cochlea

10. What is the difference between the auditory tube and the semicircular canals: describe shape, location, and function.

11. What is the difference between the tympanic membrane and the cochea: describe shape, location, and function.

12. How does the ear transform waves in air into waves in liquid?