

## **BIO 40B ASSIGNMENT: NERVOUS SYSTEM**

Name:

*Answer each question and bring this sheet to class on 5/19/16.*

1. Which of the type of neurons have one axon and one dendrite emerging from the cell body and are found in the retina of the eye, inner ear, and olfactory region of the brain?
2. Which organelle is a common site of protein synthesis in neurons?
3. Which spinal meninges is the most superficial?
4. Which space contains cerebrospinal fluid?
5. Denticulate ligaments are thickenings of
6. Which branch of each spinal nerve serves the deep muscles and skin of the posterior surface of the trunk?
7. Which extension of the dura mater separates the two hemispheres of the cerebrum?
8. Name the networks of capillaries that produce cerebrospinal fluid and are found in the walls of the ventricles of the brain?

9. Which brain structure is responsible for the "startle reflex" in response to loud sounds?
10. Which region of the brain serves as the **major/primary relay station** for most sensory impulses that reach the primary sensory areas of the cerebral cortex from the spinal cord and brain stem?
11. What structures conducts nerve impulses between the two different hemispheres of the cerebrum?
12. Which cranial nerves control movements of the eyeball?
13. What structure regulates the amount of light entering the eyeball through the pupil?
14. What darkly pigmented structure reduces light reflection within the eyeballs?
15. Which of the types of photoreceptors is primarily used for detecting light rays under bright light conditions? How many of these receptors do you find in each eye?
16. The central sulcus of the cerebrum separates the

17. Which cranial nerve carries sensory information coming from the nasal cavity to the cerebrum?

18. What occurs in the pyramids of the medulla?