

Chp 9 Part 2 Study Guide: The Brain

Sec. 9.13

1. a) How many neurons are in the brain? About how much does it weigh?
b) What are the 3 major portions? Which is largest?
2. Define/explain the function of & be able to locate: *cerebral hemispheres, cerebral cortex (neocortex), corpus callosum, convolution/gyrus, sulcus, fissure.*
3. Describe the location & function (including centers) of each lobe of the cerebrum.
4. What is *hemisphere dominance*? b) What are the major functions of the dominant hemisphere? the nondom. one? c) How would you characterize people who have a more dominant right side? left side?
d) which side of the body does the left & right hemispheres control? What % of people are left hemisphere dominant?
5. Know the ventricles' location & function b) what is found in them?
c) Describe the function of the *choroid plexuses*. d) Explain the circulation of the *cerebrospinal fluid*; what is its function?
6. What are the main parts of the *diencephalon*? b) What do they control/what are their main functions?
7. Where is the *limbic system* found? b) What does it control?
8. Name the 3 parts of the *brainstem*. b) Describe the general function(s) of each.
9. Describe the appearance & function of the *cerebellum*.

.Be able to identify on a diagram:

- cerebrum & cerebral cortex
- lobes
- longitudinal & transverse & lateral fissures. Also sulci, gyri (convolutions)
- corpus callosum
- diencephalon (incl. thalamus & hypothalamus)
- brainstem (incl. midbrain, pons & medulla oblongata)
- cerebellum
- ventricles

Sec. 9.15

13. What is included in the **Autonomic Nervous System**? b) What are its general characteristics?
14. Compare & contrast the functions of the **Sympathetic & Parasympathetic Divisions**.