

CNS Part I Quiz

1. Which of the following is found within the CNS
 - a. ganglia
 - b. nuclei
2. Which of the following terms is associated with gray matter?
 - a. cortex
 - b. nuclei
 - c. ganglia
 - d. all of the above
3. A nerve fiber that carries action potentials from one gyrus to another within the same cerebral hemisphere is called a _____
 - a. association fiber
 - b. commissural fiber
 - c. projection fiber
4. An injury to the left precentral gyrus would likely impair
 - a. left voluntary motor activity
 - b. right voluntary motor activity
 - c. left sensory perception
 - d. right sensory perception
5. An injury to the somatosensory association cortex would result in
 - a. lack of conscious sensory perception
 - b. inability to identify objects by touch
6. Postcentral gyrus is an example of a(n)
 - a. anatomical (structural) name
 - b. functional name
7. Which of the following serves as a sensory relay center, that all sensory neurons must pass through on their way to the cortex?
 - a. thalamus
 - b. caudate nucleus
8. Which of the following structures has as its primary function, maintenance of homeostasis?
 - a. Epithalamus
 - b. hypothalamus
9. A stroke patient is unable to produce speech, however is able to follow verbal commands. We would suspect an injury in which cortical region?
 - a. Broca's area
 - b. Wernicke's area
10. White matter is composed almost entirely of
 - a. glial cells
 - b. nerve fibers (axons)
11. REM cycles are longest in duration
 - a. late in the sleep cycle

- b. early in the sleep cycle
12. We are attempting to stimulate which system when we choose to study in a busy, stimuli rich environment.
- a. reticular activating system
 - b. limbic system
13. Where does complex association between sensory information, memory, emotion, planning, decision making, and motor planning occur?
- a. precentral gyrus
 - b. multimodal association areas
14. An ability to perform voluntary movements of the fingers, but an inability to type and tie shoes, is likely the result of a
- a. premotor cortex injury
 - b. primary motor cortex injury
15. Where are the visual reflex centers found?
- a. Pons
 - b. superior colliculi