

Assignment 8: Motor Systems

1. Which of the following best represents the motor areas of the cortex?
 - Primary motor cortex; Premotor cortex; Broca's area; Frontal eye field
2. Disorders of the _____ result in either too much or too little movement, as exemplified by Huntington's disease and Parkinson's disease.
 - Basal nuclei
3. Which of the following regions of the brain coordinates subconscious activities and provides for the muscle coordination and agility needed for our daily living?
 - Cerebellum
4. Which of the following is *not* a role of the basal nuclei?
 - initiating protective reflex actions
5. Two terms for the massive motor tracts serving voluntary movement are _____.
 - pyramidal and corticospinal
6. Important nuclei of the indirect (multineural) system that receive impulses from the equilibrium apparatus of the inner ear and help to maintain balance by varying muscle tone of postural muscles are the _____.
 - vestibular nuclei
7. The corpora quadrigemina superior colliculi are visual reflex centers, whereas the inferior colliculi are auditory reflex centers.
 - True
8. A disturbance of posture, muscle tremors at rest, and uncontrolled muscle contraction are all symptoms of damage to the basal nuclei.
 - True
9. Spastic paralysis suggests involvement of the _____.
 - Upper motor neurons
10. Cell bodies of the somatic motor neurons of the spinal nerves are located in the ventral horn of the spinal cord.
 - True