

## Nervous System Study Sheet

There are 35 questions on the test. Students that review the questions on this study sheet should do well.

1. Which system prepares the body for “flight or fight”?
2. Where is the gray matter of the spinal cord located? The white matter?
3. Why are muscles and glands called effectors?
4. Where are the vital control centers for visceral activities (heart rate, breathing, blood pressure, swallowing, vomiting) located?
5. Where are bipolar neurons commonly found?
6. What is another name for an afferent nerve? An efferent nerve? Hint: Think Knee Jerk
7. What is correct sequence of nerves that exit the spinal cord? Hint: Think vertebrae!
8. Degeneration of the basal ganglia causes two degenerative brain diseases. Name them.
9. What are the two major parts of the brain stem?
10. What happens at a synapse? What is a synapse?
11. Which part of the brain is the “thermostat” and regulates body temperature?
12. Which plexus of nerves exit the spinal cord between L<sub>4</sub> and S<sub>4</sub>?
13. What is the job of an association neuron?
14. Which nerve serves the posterior side of the leg and foot? Hint: Think String Man (Spinal Nerves)
15. What parts of the nervous system make up the Central Nervous System (CNS)? The Peripheral Nervous System (PNS)?
16. What are the three layers of the meninges? What are the layers from *outermost to innermost*?
17. Which senses are relayed to the brain by the vestibulo-cochlear nerve?
18. Which lobes of the brain are separated by the central sulcus?
19. What is the correct sequence in the typical reflex arch? Think Knee Jerk Reflex
20. What part of the brain stem plays a role in consciousness (sleep-wake cycle)?
21. In which lobe is the primary motor area that allows *voluntary control of skeletal muscle* movement located? Hint: Think Homunculus
22. What is the junction between neurons called?
23. Does the autonomic nervous system control skeletal muscle, cardiac muscle, or smooth muscle? Hint: 2 of the 3
24. What is a *sulcus*?
25. Which cranial nerve is involved in chewing?
26. Which part of the brain controls temperature, endocrine activity, metabolism, and thirst?
27. The sympathetic and parasympathetic systems are subdivisions of which part of the nervous system?
28. What are *gyri*? Where are they located?
29. What is the name of the *substance that is released* at the axon nerve ending?
30. What important function is controlled by *Broca's area*?
31. What is the name and number of each cranial nerve?
32. What is the difference between *axons and dendrites* in terms of direction of impulses? Which ones are receptors?
33. Name the nerve plexuses? Hint: Think String Man (Spinal Nerves)
34. Which two nerves join together to form the sciatic nerve?
35. Distinguish between myelinated and unmyelinated neurons? Hint: Which one conducts impulses the fastest?