

## *Nervous System Study Guide*

1. What is the main function of the nervous system?
2. What are the two divisions of the nervous system?
3. What are the two divisions of the PNS?
4. What kind of neurons does the afferent division contain?
5. What kind of neurons does the efferent division contain?
6. What are the two divisions of the efferent division?
7. What are the two divisions of the autonomic nervous system? What response is this known as?
8. What is the difference between neurons and neuroglia?
9. Which part of the neuron receives the impulse?
10. Which part of the neuron transmits the impulse?
11. What are the four structural types of neurons?
12. Which neuroglial cell myelinates CNS axons?
13. Which neuroglial cell myelinates PNS axons?
14. Name the four neuroglial cells of the CNS.
15. Name the two neuroglial cells of the PNS.
16. What are the two kinds of synapses? How are they different?
17. What does a neuromodulator do?
18. Name and define the two types of summation.
19. Name and define the two types of propagation. Explain node jumping.
20. What is Wallerian Degeneration?
21. What makes it difficult for the CNS to repair itself after injury?
22. Identify the longitudinal fissure, central sulcus, and lateral sulcus.
23. Identify the frontal lobe & its function.
24. Identify the parietal lobe & its function.
25. Identify the temporal lobe & its function.
26. Identify the occipital lobe & its function.
27. Identify the cerebellum & its function.
28. Identify the pineal gland & its function.
29. Identify the pituitary gland & its function.
30. Identify the medulla oblongata & its functions.
31. Name the three ventricles. Locate the Lateral Ventricle. What flows through these ventricles?
32. What is responsible for controlling emotions?
33. Locate the olfactory bulbs.
34. Locate the optic chiasm.
35. What is the difference between gray & white matter?
36. Name the three meninges of the brain & spinal cord in order from innermost layer to outermost.
37. What is meningitis?
38. Locate the posterior median sulcus, anterior median fissure, gray commissure, posterior/dorsal horn, anterior/ventral horn, white matter, dorsal root ganglia, dorsal root, ventral root, spinal nerve.
39. What is an enlargement? Name & locate the two enlargements.
40. What is the function of the phrenic nerve?
41. Name and define the two types of reflexes.
42. Know the five steps of the reflex arc.
43. What is the difference between the plantar reflex and the babinski reflex?
44. What do nociceptors sense?
45. What do thermoreceptors sense?

46. What do mechanoreceptors sense?
47. What do chemoreceptors sense?
48. What is olfaction?
49. What is gustation?
50. Name the five special senses.
51. What is an odorant?
52. What are the six tastes we as human have?
53. What kind of taste is umami?