



Participants will rotate through stations (60 seconds per station) consisting of 15 to 20 histological sections of the nervous system (via microscopes, real specimens or printed images). Students must be able to recall the names and functions of the following structures. No other structures beyond what is listed here will be tested.

## Neuroanatomy

1. Amygdala (limbic system)
2. Anterior cerebral artery
3. Arachnoid mater
4. Basal ganglia
5. Basilar artery
6. Brainstem
7. Caudate nucleus
8. Cerebellum
9. Cerebral cortex
10. Cerebral peduncle
11. Choroid Plexus
12. Circle of Willis (arterial system)
13. Corpus callosum
14. Cortex
15. Dentate gyrus
16. Dura mater
17. Epidural space
18. Epineurium
19. Fourth ventricle
20. Frontal lobe
21. Globus pallidus (forms nucleus lentiformis with putamen)
22. Hypothalamus
23. Hippocampus (medial temporal lobe)
24. Inferior colliculi
25. Inferior temporal gyrus
26. Insular cortex
27. Lateral ventricles
28. Locus coeruleus
29. Medulla oblongata
30. Middle cerebral artery
31. Middle temporal gyrus
32. Nucleus accumbens
33. Occipital lobe
34. Oculomotor (III) nerve
35. Olfactory (I) nerve
36. Olfactory bulb
37. Olfactory tract
38. Optic (II) nerve
39. Optic chiasm
40. Optic radiation
41. Optic tract
42. Parahippocampal gyrus
43. Parietal lobe
44. Pia mater
45. Pineal body
46. Pituitary gland (hypophysis)
47. Pons
48. Posterior cerebral artery
49. Prefrontal cortex
50. Premotor cortex
51. Primary auditory cortex
52. Primary motor cortex (precentral gyrus)
53. Primary somatosensory cortex (postcentral gyrus)
54. Primary visual cortex (V1)
55. Putamen
56. Raphe nucleus
57. Spinal canal
58. Spinal cord
59. Subarachnoid space
60. Subdural space
61. Substantia nigra
62. Subthalamic nucleus
63. Superior colliculi
64. Superior temporal gyrus
65. Temporal lobe
66. Thalamus
67. Third ventricle
68. Trigeminal (V) nerve
69. Vagus (X) nerve
70. Ventral tegmental area
71. Ventricular system
72. Vertebral artery
73. White matter

# Histology

1. Anterior Horn
2. Axons
3. Basal cells of the Taste Bud
4. Choroid
5. Cochlea
6. Cones
7. Crista Ampullaris
8. Cupula
9. Dorsal Horn
10. Dorsal root ganglion
11. Endoneurium
12. Epineurium
13. Fungiform papilla
14. Ganglion cells of the Retina
15. Granule cell layer of the Cerebellum
16. Grey matter
17. Hair cells of the Organ of Corti
18. Molecular layer of the Cerebellum
19. Neuroepithelial cells of the Taste Bud
20. Node of Ranvier
21. Olfactory epithelium
22. Organ of Corti
23. Pacinian Corpuscle
24. Perineurium
25. Peripheral nerve
26. Photoreceptor cells
27. Purkinje cell of the Cerebellum
28. Pyramidal neurons of the Hippocampus
29. Retina
30. Rods
31. Schwann cells
32. Spinal canal
33. Taste Buds
34. White matter