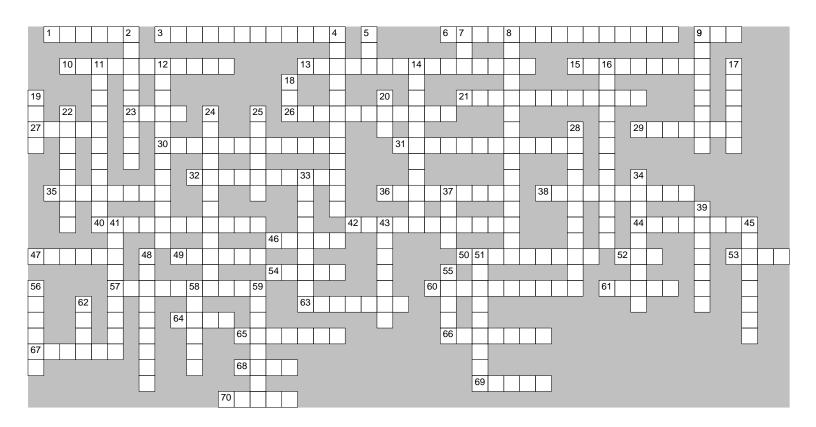
## **Exam 3 Study Puzzle**



- 1. term for the intermixing of spinal nerves in the cervical, brachial, lumbar and saccral regions
- the space in which CSF circulates in the 3. meninges ANS division that is concerned with 6.
- conservation and storage of energy q includes the brain and spinal cord
- 10. interneuron type that connects different regions of the cerebrum within the same hemisphere
- 13. the scientific term for the anterior pituitary 15. the neurohypophysis is also referred to as
- \_ pituitary gland the 21. the "link" between the endocrine and
- nervous system 23. this type of innervation (in which both
- divisions effect an organ) is utilized by the autonomic nervous system 26. term to describe the larger effect when two
- or more hormones work together
- 27. these cells of the pancreatic islets produce glucagon
- 29. a deep groove with dura mater extending into it
- 30. first letter of cranial nerves in order
- 31. a hormone that is secreted from a neuron but has endocrine effects is classified as a
- 32. this gyrus is also called the primary motor cortex
- 35, carriers of lipid soluble hormones are made of \_\_\_, which are water soluble
- 36. characteristic regions of the body surface that are innervated by spinal nerves
- 38. alcohol inhibits this portion of the brain
- 40. these neurons form the corpus collosum 42. term used to describe a pathway (reflex)
- that stays on the same side of the body 44. sensory input is this directional term
- 46. atrial natriuretic peptide is released by this organ
- 47. the "survival" system of the brain49. "his" area of the brain is responsible for the
- motor aspect of speech
- 50. supporting cells of the nervous system
- 52. one of the hormones (initials) that is involved with control of blood calcium levels

- 53. a synapse may be excitatory or inhibitory, but never
- 54. this ventricle closely associated with the diencephalon
- 57. estrogen is an example of a hormone, in that it "allows" progesterone to have a greater affect
- 60. ganglia of the ANS allow for a high level of
- 61. a bump on the brain surface

Across

- 63. clumps of cell bodies, axon terminals and dendrites outside of the central nervous system
- 64. the nervous systems effects are fast, while the endocrine systems effects are
- 65. this sulcus separates the frontal from the parietal lobes
- 66. this gland consists of follicles that produce T3 and T4 hormones
- 67. the root of the spinal cord contains sensorv nerves
- 68. the cell type of the pancreatic islets that produce insulin
- 69, if a hormone is soluble it will bind to intracellular receptors
- \_ soluble it will bind to 70. if a hormone is extracellular or membrane receptors

- 2 intracellular signals that trigger additional effects are called messengers, for ex. cAMP
- made up of the epithalamus, thalamus and 4. hypothalamus
- 5. hormone release by the kidneys in response to low oxygen levels (initials) 7.
- neurotransmitter (ab.) utilized by all ANS ganglia and secreted by the postganglionic neurons of the parasympathetic division
- 8. in the cerebellum 9.
- . this division of the autonomic nervous 11 system increases energy use
- 12. insulin and glucagon are hormones in that they have opposite effects
- 14. this gyrus is also called the somatosensory cortex
- 16. first letters of the function acronym for the 12 cranial nerves
- 17. these basal are deep in the cerebrum and are involved with movement
- 18. includes all neural matter outside the brain and spinal cord
- 19. the color of matter found in the cerebral or cerebellar cortex
- 20. the fragile layer of the meninges is the mater
- 22. the space into which anasthetic is injected to block spinal nerve transmission
- 24, these functional cells of the nervous system are entirely within the central nervous system
- 25. a quick, automatic and predictable response to a stimulus
- 28. term for a gland such as the pituitary that is both endocrine and exocrine in nature
- 33. the \_ and inhibiting hormones of the hypothalamus control the anterior pituitary's endocrine cells
- 34. this sensory tract from cranial nerve I is linked to the limbic system and can invoke strong memories
- 37. anterior pituitary hormone (initials) that control part of the adrenal cortex
- 39. the parasympathetic division has its origin in the and sacral nerves.
- 41. lobe which contains the visual cortex

- Down 43 motor division that controls skeletal muscle 45. the sympathetic division has its origins in
  - the \_ and lumbar nerves 48. this area of the brain is named after a guy
  - who figured out that it has everything to do with understanding communication 51. cell type that is involved with the creation of
  - cerebrospinal fluid 55. number of cranial nerves
  - 56. produce sex hormones
  - 58. a shallow groove on the brain
  - 59. motor output is this directional term
  - 62. intermediate portion of the brain stem
- this tract starts in the spinal cord and ends contains the two largest hemispheres