

Exam-nervous system - Notes

Introduction to Psychology (University of South Africa)



Scan to open on Studocu

Anatomy & Physiology: Nervous System Exam

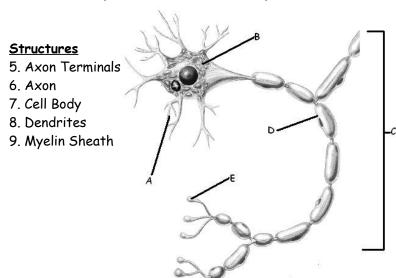
I. Matching

- 1. Form brain-blood barrier by covering capillaries & metabolize neurotransmitters
- 2. Responsible for Phagocytosis
- 3. Circulates/Produces Cerebrospinal Fluid
- 4. Responsible for the production of Myelin Sheath

- A. Microglia
- B. Oligodendrocytes
- C. Astrocytes
- D. Ependymal

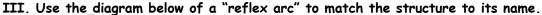
II. Labeling & Matching:

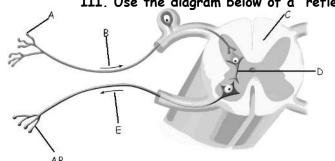
For questions 5-9 use the diagram for labeling the structures. For questions 10-14 use the picture to match with the function of each structure.



Functions

- 10. Neurotransmitter messenger
- 11. Relays impulse toward synapse
- 12. Neurotransmitter receiver
- 13. Contains nucleus & mitochondria
- 14. Controls transmitting/speed of impulses

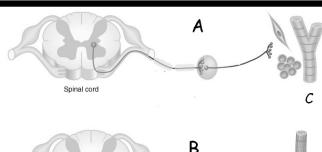


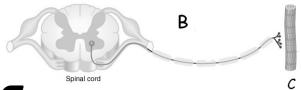


- 15. Interneuron/Association Neuron
- 16. Efferent Neuron
- 17. Afferent Neuron



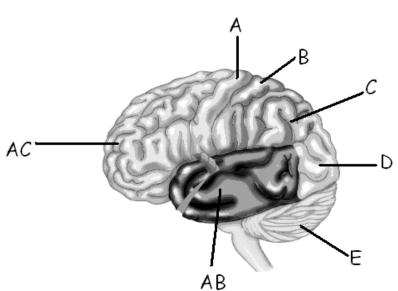
- 19. Somatic Nervous System Pathway
- 20. Autonomic Nervous System Pathway





This document is available on

IV. Use the brain picture to match the following:

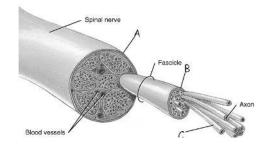


- 21. Temporal Lobe
- 22. Cerebellum
- 23. Post-Central Gyrus
- 24. Parietal Lobe
- 25. Frontal Lobe
- 26. Occipital Lobe
- 27. Pre-Central Gyrus

V	Multiple	Choice
٧.	Mulliple	CHOICE

- 28. When referring to the picture to the right, which layer:

 A, B or C is the Epineurium?
- 29. Cranial Nerve V, ____ controls mastication (chewing).
 - a. Vagus
- b. Trigeminal c. Facial
- d. Optic
- 30. What lobe of your brain regulates vision?
 - a. Temporal
- b. Parietal
- c. Occipital
- d. Frontal



- 31. Functions such as thirst, hunger, anger and body temperature are regulated by the
 - a. Hypothalamus
- b. Thalamus
- c. Epithalamus
- d. None of these
- 32. Which part of the brain is considered the respiratory, cardiovascular and reflex center (coughing, sneezing)?
 - a. Cerebrum
- b. Medulla oblongata
- c. Thalamus
- d. Diencephalon

- 33. The grooves of the brain are called?
 - a. Gyrus
- b. Sulci
- c. Dura Mater
- d. Pia Mater
- 34. During and action potential, ion channels open, NA+ rushes in (_____) and K+ rushes out (____).
- a. repolarization, depolarization
- b. depolarization, repolarization
- 35. The progressive destruction of myelin sheaths of neurons in the CNS results in the short circuiting of nerve impulses. This leads to muscular weakness and abnormal sensations in which of the following (there may be more than one answer)
 - a. Epilepsy
- b. M.S.
- c. Parkinson's Disease
- d. Huntington's Disease
- e. ALD

- 36. Which of the following Neuronal Circuits deals with short term memory?
 - a. Diverging
- b. Converging
- c. Reverberating
- d. Parallel-after-Discharge
- 37. The space between the presynaptic and postsynaptic neuron is called a
 - a. Terminal bulb
- b. Synapse
- c. Chasm

d. Node of Ranvier

- 38. The first 90 minutes of our sleep patterns is as follows
 - a. Stage: 1,2,3,4,2,REM
- b. Stage: 1,2,3,4,REM,2
- c. Stage:REM,1,2,3,4
- d.Stage:1,2,3,4,REM
- 39. Cells of the nervous system which supports the neurons by producing myelin sheaths, and attaching neurons to blood vessels are called
 - a. Plexi cells
- b. Neuroglial cells
- c. Somatic cells
- d. Peripheral cells

- 40. The somatic nervous system sends signals from the CNS to the:
 - a. Cranial Nerves
- b. Skeletal Muscles
- c. Cerebrum
- d. Viscera

- 41. The "S" is SLUDD Response stands for:
 - a. Sleep

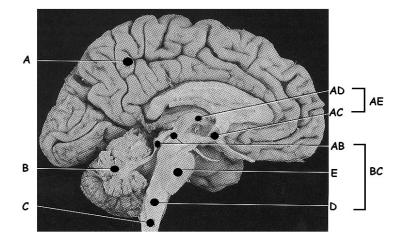
- b. Secrete
- c. Salivation
- d. Sensation
- 42. This type of paralysis is described as loss of motor function on one side only:
 - a. Monoplegia
- b. Diplegia

- c. Hemiplegia
- d. Quadraplegia
- 43. The Peripheral Nervous System is divided into <u>2 Main</u> motor functional divisions:
 - a. Sympathetic/Parasympathetic
- b. Autonomic/Somatic
- c. Afferent/Efferent
- 44. The Basal Ganglia serve, as one of its many functions, to:
 - a. Decrease heart rate when needed
- b. Increase blood glucose levels
- c. Program automatic movements
- d. Restore body energy during times of rest

VI. Match the Disorder to its description for numbers 45-50:

- 45. 2nd Most common neurological disorder characterized by short, recurrent attacks initiated by electrical discharges in the brain
- 46. Loss of neurons that release Ach; Tangled protein filaments within neuron & abnormal protein plaques outside neuron
- 47. Damage to motor area of the brain often associated with oxygen loss during childbirth
- 48. A viral infection caused by one of the herpes viruses. It travels across the spinal nerves and causes blisters and severe pain.
- 49. Blocking the drainage of CSF leading to an increase in pressure and damage to tissues of the brain and spinal cord
- 50. Two types: Ischemic-decreased blood flow & Hemorrhagic-rupturing blood vessel; 3rd leading cause of death
- a. Hydrocephalus b. Cerebral Vascular Accident (CVA)
 - c. Epilepsy
 - d. Alzheimers
 - e. Cerebral Palsy
 - ab. Shingles

VII. Dissection Labeling 51-60:



- 51. Diencephalon
- 52. Cerebrum
- 53. Spinal Cord
- 54. Pons
- 55. Brain Stem
- 56. Thalamus
- 57. Hypothalamus
- 58. Midbrain
- 59. Medulla Oblongata
- 60. Cerebellum

VIII. Brain Functions

- 61. Reflexes
- 62. Motor Coordination
- 63. Autonomic Functions
- 64. Memory
- 65. Conscious Thought
- 66. Personality
- 67. Vision
- 68. Movement
- 69. Breathing/Heart Rate
- 70. Speech/Language
- 71. Motor Control
- 72. Disseminates Info
- A. Cerebral Cortex E. Occipital AE. Hypothalamus AB. Temporal BC. Cerebellum B. Cerebrum C. Frontal AC. Medulla BD. Brain Stem D. Parietal AD. Pons BE. Corpus Callosum



IX. Cranial Nerve Matching

- A. Controls Neck Muscles like the Sternocleidomastoid 73. Cranial Nerve I **B** Vision 74. Cranial Nerve II C. Mastication 75. Cranial Nerve III D. Glandular Secretions in the Face 76. Cranial Nerve IV E. Lift Throats During Swallowing 77. Cranial Nerve V AB. Accommodation of the Lens 78. Cranial Nerve VI AC. Superior Oblique Eye Muscle Control 79. Cranial Nerve VII AD. Controls Tongue During Speech 80. Cranial Nerve VIII AE. Hearing and Balance 81. Cranial Nerve IX BC. Control Cardiac & Smooth Muscles 82. Cranial Nerve X BD. Lateral Eye Movement (like in REM) 83. Cranial Nerve XI BE. Smell 84. Cranial Nerve XII X. Matching: Endocrine Gland & It's Representative Action 85. Pineal Body A. Promotes growth of uterus B. Increases blood glucose levels, metabolism & constricts 86. Ovaries 87. Posterior Lobe of Pituitary Gland 88. Anterior Lobe of Pituitary Gland certain blood vessels 89. Thyroid Gland C. Involved in biological rhythms D. Stimulates growth of bones and muscles 90. Parathyroid Gland E. Stimulates metabolism and reduces blood calcium levels 91. Thymus AB. Reduces AND raises blood glucose levels 92. Adrenal Gland 93. Pancreas AC. Supports sperm formation AD. Stimulates contraction of uterus & milk let-down; 94. Testes promotes retention of water by kidneys AE. Raises blood calcium levels XI. Lorenzo's Oil 95. The paperclip model used by Augusto was used to describe which scientific process? a. Enzyme Function b. Competitive Inhibition c. Demyelination 96. ALD is which kind of Neurological disease? a. Recessive X-Linked b. Dominant X-Linked c. Recessive Y-Linked 97. Why didn't a diet low in fat, alone, cure ALD? a. It did lower his VLCFA b. Because Lorenzo had already lost too much myelin to show any improvements c. Because Biosynthesis accounts for the majority of fat production, not diet 98. Lorenzo's Oil is a cure for ALD? a. True b. False 99. What did Lorenzo's Oil do specifically? a. It re-myelinated neurons b. It stopped/slowed down biosynthesis c. It cured ALD
- 100. ALD is characterized by_____ (there may be more than one answer).
 - a. Buildup of very long chain fatty acids (saturated fats C24 & C26)
 - b. Faulty transport protein gene
 - c. Demyelinated neurons

BONUS WORD OF THE DAY

	Mark your answer on the right side of the scantron (just answer!!!).				
1.	means ONE HALF	2	means PROCESS OF RECORDING		
3	"PFRT" means	4 "PO	ITO" means		