



# NERVOUS SYSTEM ANATOMY

Questions Responses 148

Total points: 100

## 148 responses



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Summary

Question

Individual

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Score released Jul 8 9:10 PM

# NERVOUS SYSTEM ANATOMY

The time duration is 1 hour  
FROM 7:50PM TO 9:30PM  
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✓ 1. The term central nervous system refers to the \*

5 / 5

A) autonomic and peripheral nervous systems

B) brain, spinal cord, and cranial nerves

C) brain and cranial nerves

D) spinal cord and spinal nerves

E) brain and spinal cord



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✓ 2. The peripheral nervous system consists of: \*

5 / 5

- A) spinal nerves only
- B) the brain only
- C) cranial nerves only
- D) the brain and spinal cord
- E) the spinal and cranial nerves



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✓ 3. Which of these cells are not a type of neuroglia found in the CNS \*

5 / 5

- A) astrocytes
- B) microglia
- C) Schwann cells
- D) ependymal cells
- E) oligodendrocytes



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✓ 4. The Schwann cells form a myelin sheath around the \*

5 / 5

- A) dendrites
- B) cell body
- C) nucleus
- D) axon
- E) nodes of Ranvier



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✓ 5. The neuron processes that normally receives incoming stimuli are called \*

5 / 5

- A) axons
- B) dendrites
- C) neurolemmas
- D) Schwann cells
- E) satellite cells



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✓ 6. Collections of nerve cell bodies inside the PNS are called \*

5 / 5

- A) ganglia
- B) tracts
- C) nerves
- D) nuclei
- E) tracts or ganglia



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✓ 7. Which of the following best describes the waxy-appearing material called myelin \*

5 / 5

- A) an outer membrane on a neuroglial cell
- B) a lipid-protein (lipoprotein) cell membrane on the outside of axons
- C) a mass of white lipid material that surrounds the cell body of a neuron
- D) a mass of white lipid material that insulates the axon of a neuron
- E) a mass of white lipid material that surrounds the dendrites of a neuron



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✓ 8. A neuron with a cell body located in the CNS whose primary function is connecting other neurons is called a(n): \*

5 / 5

- A) efferent neuron
- B) afferent neuron
- C) interneuron
- D) glial cell
- E) satellite cell



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✓ 9. White matter refers to myelinated fibers in the \*

5 / 5

- A) CNS
- B) PNS
- C) ANS
- D) SNS
- E) both ANS and SNS



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✓ 10. Impulse conduction is fastest in neurons that are: \*

5 / 5

- A) myelinated
- B) unmyelinated
- C) sensory
- D) motor
- E) cerebral



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✓ 11. An action potential \*

5 / 5

- A) is essential for nerve impulse propagation
- B) involves the influx of negative ions to depolarize the membrane
- C) involves the outflux of negative ions to depolarize the membrane
- D) involves the outflux of positive ions to depolarize the membrane
- E) is initiated by potassium ion movements



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✓ 12. Immediately after an action potential is propagated, which one of the following ions rapidly diffuses out of the cell into the tissue fluid \*

5 / 5

- A) sodium
- B) chloride
- C) calcium
- D) potassium
- E) magnesium



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✓ 13. The ability to respond to a stimulus is termed \*

5 / 5

- A) polarized
- B) irritability
- C) depolarized
- D) conductivity
- E) all-or-none response



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✓ 14. Which one of the following is the correct sequence of events that follows a threshold potential: 1. the membrane becomes depolarized 2. sodium channels open and sodium ions diffuse inward 3. the membrane becomes repolarized 4. potassium channels open and potassium ions diffuse outward while sodium is actively transported out of the cell \*

5 / 5

- A) 3,2,4,1
- B) 2,1,4,3
- C) 2,1,3,4
- D) 1,2,4,3
- E) 4,1,3,2



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✓ 15. Which one of the following describes saltatory conduction: \*

5 / 5

- A) occurs only if the myelin sheath is continuous
- B) occurs only if the nodes of Ranvier are lacking
- C) occurs only in the absence of axon hillocks
- D) is faster than conduction on an unmyelinated fiber
- E) is slower than conduction on an unmyelinated fiber



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✓ 16. The substance that is released at axonal endings to propagate a nervous impulse is called \*

5 / 5

- A) an ion
- B) nerve glue
- C) a neurotransmitter
- D) the sodium-potassium pump
- E) an action potential



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✓ 17. Which of the following is the correct sequence in a typical reflex arc: \*

5 / 5

- A) effector, afferent neuron, integration centre, efferent neuron, receptor
- B) receptor, afferent neuron, integration centre, efferent neuron, effector
- C) effector, efferent neuron, integration centre, afferent neuron, receptor
- D) receptor, efferent neuron, integration centre, afferent neuron, effector
- E) receptor, afferent neuron, efferent neuron, integration centre, effector



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✓ 18. The elevated ridges of tissue on the surface of the cerebral hemispheres are known as \_\_\_\_\_ while the shallow grooves are termed \_\_\_\_\_. \* 5 / 5

- A) sulci; gyri
- B) gyri; sulci
- C) ganglia; gyri
- D) tracts; ganglia
- E) receptors; effectors



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✓ 19. The olfactory area is found within the \* 5 / 5

- A) occipital lobe
- B) temporal lobe
- C) frontal lobe
- D) parietal lobe
- E) pyramidal tract



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✓ 20. Sally has a brain injury; she knows what she wants to say but can't vocalize the words. The part of her brain that deals with the ability to speak is the \*

5 / 5

- A) longitudinal fissure
- B) gyrus
- C) central sulcus
- D) Broca's area
- E) primary motor control



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Submitted 7/8/21, 9:10 PM