

Anatomy & A&P 12 Nervous Tissue MCQ

Author: OpenStax College

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4. Chapter: A&P 12 Nervous Tissue MCQ

1. A&P 12 Nervous Tissue MCQ Questions

4.1.1. Which of the following cavities contains a component of the central...

Author: OpenStax College

Which of the following cavities contains a component of the central nervous system?

Please choose only one answer:

- abdominal
- pelvic
- cranial
- thoracic

Check the answer of this question online at QuizOver.com:

Question: [Which of the following cavities contains OpenStax College Anatomy](#)

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Interactive Question:

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4.1.2. Which structure predominates in the white matter of the brain?

Author: OpenStax College

Which structure predominates in the white matter of the brain?

Please choose only one answer:

- myelinated axons
- neuronal cell bodies
- ganglia of the parasympathetic nerves
- bundles of dendrites from the enteric nervous system

Check the answer of this question online at QuizOver.com:

Question: [Which structure predominates in the white OpenStax College Anatomy](#)

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Interactive Question:

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4.1.3. Which part of a neuron transmits an electrical signal to a target c...

Author: OpenStax College

Which part of a neuron transmits an electrical signal to a target cell?

Please choose only one answer:

- dendrites
- soma
- cell body
- axon

Check the answer of this question online at QuizOver.com:

Question: [Which part of a neuron transmits an OpenStax College Anatomy Quest](#)

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4.1.4. Which term describes a bundle of axons in the peripheral nervous sy...

Author: OpenStax College

Which term describes a bundle of axons in the peripheral nervous system?

Please choose only one answer:

- nucleus
- ganglion
- tract
- nerve

Check the answer of this question online at QuizOver.com:

Question: [Which term describes a bundle of axons in OpenStax College Anatomy](#)

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4.1.5. Which functional division of the nervous system would be responsibl...

Author: OpenStax College

Which functional division of the nervous system would be responsible for the physiological changes seen during exercise (e.g., increased heart rate and sweating)?

Please choose only one answer:

- somatic
- autonomic
- enteric
- central

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which functional division of the nervous OpenStax College Anatomy](#)

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4.1.6. What type of glial cell provides myelin for the axons in a tract?

Author: OpenStax College

What type of glial cell provides myelin for the axons in a tract?

Please choose only one answer:

- oligodendrocyte
- astrocyte
- Schwann cell
- satellite cell

Check the answer of this question online at QuizOver.com:

Question: [What type of glial cell provides myelin OpenStax College Anatomy](#)

Flashcards:

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Interactive Question:

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4.1.7. Which part of a neuron contains the nucleus?

Author: OpenStax College

Which part of a neuron contains the nucleus?

Please choose only one answer:

- dendrite
- soma
- axon
- synaptic end bulb

Check the answer of this question online at QuizOver.com:

Question: [Which part of a neuron contains the nucleus OpenStax College Anatomy](#)

Flashcards:

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4.1.8. Which of the following substances is least able to cross the blood-...

Author: OpenStax College

Which of the following substances is least able to cross the blood-brain barrier?

Please choose only one answer:

- water
- sodium ions
- glucose
- white blood cells

Check the answer of this question online at QuizOver.com:

Question: [Which of the following substances is least OpenStax College Anatomy](#)

Flashcards:

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4.1.9. What type of glial cell is the resident macrophage behind the blood...

Author: OpenStax College

What type of glial cell is the resident macrophage behind the blood-brain barrier?

Please choose only one answer:

- microglia
- astrocyte
- Schwann cell
- satellite cell

Check the answer of this question online at QuizOver.com:

Question: [What type of glial cell is the resident OpenStax College Anatomy](#)

Flashcards:

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4.1.10. What two types of macromolecules are the main components of myelin?

Author: OpenStax College

What two types of macromolecules are the main components of myelin?

Please choose only one answer:

- carbohydrates and lipids
- proteins and nucleic acids
- lipids and proteins
- carbohydrates and nucleic acids

Check the answer of this question online at QuizOver.com:

Question: [What two types of macromolecules are the OpenStax College Anatomy](#)

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4.1.11. If a thermoreceptor is sensitive to temperature sensations, what wo...

Author: OpenStax College

If a thermoreceptor is sensitive to temperature sensations, what would a chemoreceptor be sensitive to?

Please choose only one answer:

- light
- sound
- molecules
- vibration

Check the answer of this question online at QuizOver.com:

Question: [If a thermoreceptor is sensitive to OpenStax College Anatomy Quest](#)

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4.1.12. Which of these locations is where the greatest level of integration...

Author: OpenStax College

Which of these locations is where the greatest level of integration is taking place in the example of testing the temperature of the shower?

Please choose only one answer:

- skeletal muscle
- spinal cord
- thalamus
- cerebral cortex

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of these locations is where the OpenStax College Anatomy Quest](#)

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4.1.13. How long does all the signaling through the sensory pathway, within...

Author: OpenStax College

How long does all the signaling through the sensory pathway, within the central nervous system, and through the motor command pathway take?

Please choose only one answer:

- 1 to 2 minutes
- 1 to 2 seconds
- fraction of a second
- varies with graded potential

Check the answer of this question online at QuizOver.com:

Question: [How long does all the signaling through OpenStax College Anatomy](#)

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4.1.14. What is the target of an upper motor neuron?

Author: OpenStax College

What is the target of an upper motor neuron?

Please choose only one answer:

- cerebral cortex
- lower motor neuron
- skeletal muscle
- thalamus

Check the answer of this question online at QuizOver.com:

Question: [What is the target of an upper motor neu OpenStax College Anatomy](#)

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4.1.15. What ion enters a neuron causing depolarization of the cell membrane?

Author: OpenStax College

What ion enters a neuron causing depolarization of the cell membrane?

Please choose only one answer:

- sodium
- chloride
- potassium
- phosphate

Check the answer of this question online at QuizOver.com:

Question: [What ion enters a neuron causing depolarization OpenStax College](#)

Flashcards:

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4.1.16. Voltage-gated Na⁺ channels open upon reaching what state?

Author: OpenStax College

Voltage-gated Na⁺ channels open upon reaching what state?

Please choose only one answer:

- resting potential
- threshold
- repolarization
- overshoot

Check the answer of this question online at QuizOver.com:

Question: [Voltage-gated Na channels open upon reaching OpenStax College Anatomy](#)

Flashcards:

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4.1.17. What does a ligand-gated channel require in order to open?

Author: OpenStax College

What does a ligand-gated channel require in order to open?

Please choose only one answer:

- increase in concentration of Na⁺ ions
- binding of a neurotransmitter
- increase in concentration of K⁺ ions
- depolarization of the membrane

Check the answer of this question online at QuizOver.com:

Question: [What does a ligand-gated channel require OpenStax College Anatomy](#)

Flashcards:

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4.1.18. What does a mechanically gated channel respond to?

Author: OpenStax College

What does a mechanically gated channel respond to?

Please choose only one answer:

- physical stimulus
- chemical stimulus
- increase in resistance
- decrease in resistance

Check the answer of this question online at QuizOver.com:

Question: [What does a mechanically gated channel OpenStax College Anatomy Quest](#)

Flashcards:

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4.1.19. Which of the following voltages would most likely be measured durin...

Author: OpenStax College

Which of the following voltages would most likely be measured during the relative refractory period?

Please choose only one answer:

- +30 mV
- 0 mV
- -45 mV
- -80 mv

Check the answer of this question online at QuizOver.com:

Question: [Which of the following voltages would most OpenStax College Anatomy](#)

Flashcards:

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4.1.20. Which of the following is probably going to propagate an action pot...

Author: OpenStax College

Which of the following is probably going to propagate an action potential fastest?

Please choose only one answer:

- a thin, unmyelinated axon
- a thin, myelinated axon
- a thick, unmyelinated axon
- a thick, myelinated axon

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is probably going OpenStax College Anatomy](#)

Flashcards:

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4.1.21. How much of a change in the membrane potential is necessary for the...

Author: OpenStax College

How much of a change in the membrane potential is necessary for the summation of postsynaptic potentials to result in an action potential being generated?

Please choose only one answer:

- +30 mV
- +15 mV
- +10 mV
- -15 mV

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [How much of a change in the membrane OpenStax College Anatomy Quest](#)

Flashcards:

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4.1.22. A channel opens on a postsynaptic membrane that causes a negative i...

Author: OpenStax College

A channel opens on a postsynaptic membrane that causes a negative ion to enter the cell. What type of graded potential is this?

Please choose only one answer:

- depolarizing
- repolarizing
- hyperpolarizing
- non-polarizing

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [A channel opens on a postsynaptic membrane OpenStax College Anatomy](http://www.quizover.com/question/a-channel-opens-on-a-postsynaptic-membrane-openstax-college-anatomy?pdf=1505)

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4.1.23. What neurotransmitter is released at the neuromuscular junction?

Author: OpenStax College

What neurotransmitter is released at the neuromuscular junction?

Please choose only one answer:

- norepinephrine
- serotonin
- dopamine
- acetylcholine

Check the answer of this question online at QuizOver.com:

Question: [What neurotransmitter is released at the OpenStax College Anatomy](#)

Flashcards:

<http://www.quizover.com/flashcards/what-neurotransmitter-is-released-at-the-openstax-college-anatomy?pdf=1505>

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4.1.24. What type of receptor requires an effector protein to initiate a si...

Author: OpenStax College

What type of receptor requires an effector protein to initiate a signal?

Please choose only one answer:

- biogenic amine
- ionotropic receptor
- cholinergic system
- metabotropic receptor

Check the answer of this question online at QuizOver.com:

Question: [What type of receptor requires an effector OpenStax College Anatomy](#)

Flashcards:

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Interactive Question:

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4.1.25. Which of the following neurotransmitters is associated with inhibit...

Author: OpenStax College

Which of the following neurotransmitters is associated with inhibition exclusively?

Please choose only one answer:

- GABA
- acetylcholine
- glutamate
- norepinephrine

Check the answer of this question online at QuizOver.com:

Question: [Which of the following neurotransmitters OpenStax College Anatomy](#)

Flashcards:

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