ALBERTA BIOLOGY 30 · UNIT A · 5 QUESTIONS

Nervous & Endocrine Systems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In the peripheral nervous system, the myelin sheath that surrounds an axon is produced by**

- **A** Schwann cells
- **B** oligodendrocytes
- **C** astrocytes
- **D** microglia

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2 **Immediately after the peak of an action potential, the axon membrane repolarizes. Repolarization occurs because**

A voltage-gated sodium channels open and sodium ions diffuse into the neuron

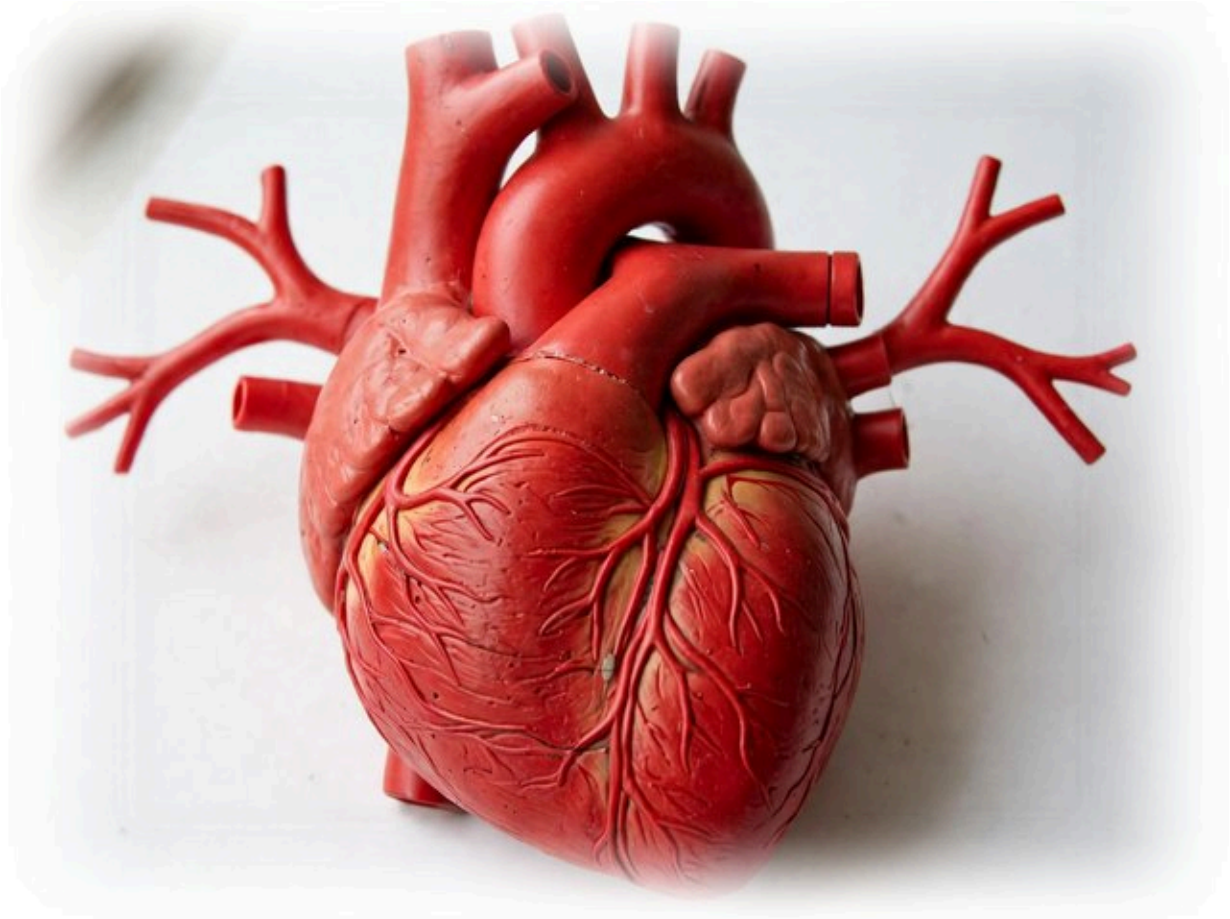
B the sodium-potassium pump rapidly moves sodium ions into the neuron

C voltage-gated potassium channels open and potassium ions diffuse out of the neuron

D synaptic vesicles release neurotransmitter from the axon terminal

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3 **A red anatomical model of a human heart on a plain white surface, showing the heart shape with its main blood vessels, large in frame. Glucagon is secreted by alpha cells of the pancreas when blood glucose levels fall. The main effect of glucagon is to**



A increase the uptake of glucose by body cells

B stimulate the liver to store glucose as glycogen

C decrease the metabolic rate of body cells

D stimulate the liver to convert glycogen into glucose

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4 **The structures of the inner ear that detect rotation and movement of the head, and so help maintain balance, are the**

A cochlea

B semicircular canals

C eustachian tubes

D ossicles

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5 **The graph shows distance travelled by an impulse along an axon over time. The speed of the impulse, in metres per second, is ____. Record your answer as a number.**

ANSWER _____

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ANSWER KEY

1. A
2. C
3. D
4. B
5. 120

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