ALBERTA SCIENCE 30 · UNIT A · 5 QUESTIONS

Living Systems Respond to Their Environment — 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 a myelinated neuron, a nerve impulse appears to jump from one gap in the myelin sheath to the next. These gaps are called**

A synapses

B dendrites

C nodes of Ranvier

D cell bodies

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2 **Voters waiting in a line outside a polling place, a large red and white VOTE HERE sign beside the door. The white blood cells of the second line of defence that engulf and digest pathogens are called**



A phagocytes

B B cells

C memory cells

D red blood cells

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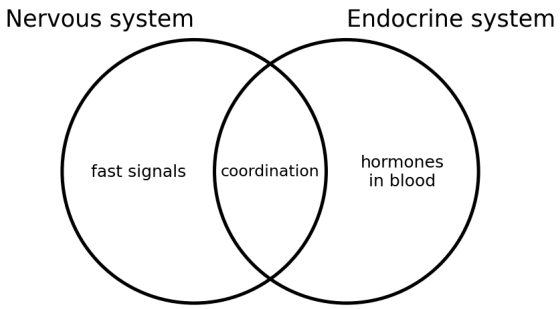
3 **The diagram compares two control systems in the body. The endocrine system, but not the nervous system, is shown to**



A send fast electrical signals

B coordinate body responses

C release hormones into the blood

D respond within milliseconds

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4 **The medulla oblongata controls involuntary actions such as**

A planning voluntary movements

B heart rate, breathing rate, and blood pressure

C interpreting sound from the ears

D releasing hormones from the pituitary gland

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5 **Some events in the control of thyroxine release are listed below. 1 The thyroid gland releases thyroxine 2 The hypothalamus detects a need and signals the pituitary gland 3 The pituitary gland releases thyroid stimulating hormone (TSH) 4 Thyroxine increases the metabolic rate of body cells The order in which the events occur, from first to last, is _____ Record your answer as a four-digit number.**

ANSWER _____

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ANSWER KEY

1. C
2. A
3. C
4. B
5. 2314

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