PRINCE EDWARD ISLAND BIOLOGY 11 · UNIT D

Immune, Nervous and Endocrine Systems — Practice Test

Prince Edward Island Biology 11 • 25 questions

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 **A hormone concentration starts at 10 units and doubles 3 times. What is the final concentration in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A nerve impulse travels 2 metres at a speed of 20 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A signal passes through 3 neurons in a row, and each synapse adds a delay of 0.002 seconds. What is the total synaptic delay in seconds, to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A white blood cell count rises from 100 units by 20 percent. What is the new count in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A neuron carries an impulse along its**

A dendrite only

B axon

C myelin only

D synapse only

Understand It with Pulse | Flag a mistake

6

A reflex arc allows a response that is

A slow and learned

B voluntary only

C hormonal only

D fast and automatic

Understand It with Pulse | Flag a mistake

7

A vaccine works by exposing the immune system to a

A live disease always

B hormone

C antibiotic

D harmless form of a pathogen

Understand It with Pulse | Flag a mistake

8 **Adrenaline is released in a fight or flight response by the**

A pancreas

B thyroid gland

C adrenal glands

D ovaries

Understand It with Pulse | Flag a mistake

9 **An antigen is a substance that triggers an**

A hormone release

B immune response

C nerve impulse

D muscle contraction

Understand It with Pulse | Flag a mistake

10 **An autoimmune disorder occurs when the immune system attacks the**

A pathogens only

B hormones only

C body's own tissues

D neurons only

Understand It with Pulse | Flag a mistake

11 **Antibodies are produced by the immune system to target**

A specific antigens

B all cells

C hormones

D neurons

Understand It with Pulse | Flag a mistake

12 **Compared with nerve impulses, hormonal responses are usually**

- A faster and shorter
- B slower and longer lasting
- C identical
- D electrical

Understand It with Pulse | Flag a mistake

13 **Hormones travel through the body in the**

- A bloodstream
- B nerves only
- C lymph only
- D digestive tract

Understand It with Pulse | Flag a mistake

14 **Inflammation at an injury site brings extra blood and**

A hormones only

B red blood cells only

C platelets only

D white blood cells to the area

Understand It with Pulse | Flag a mistake

15 **Insulin is a hormone produced by the**

A thyroid gland

B adrenal gland

C pituitary gland

D pancreas

Understand It with Pulse | Flag a mistake

16 **Insulin lowers blood glucose by helping cells**

A take up glucose

B release glucose

C make glucose

D destroy glucose

Understand It with Pulse | Flag a mistake

17 **Memory cells allow the immune system to respond**

A slower on a second exposure

B only once

C faster on a second exposure

D without antibodies

Understand It with Pulse | Flag a mistake

18 **A hormone concentration starts at 20 units and doubles 2 times. What is the final concentration in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A nerve impulse travels 3 metres at a speed of 30 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A signal passes through 4 neurons in a row, and each synapse adds a delay of 0.002 seconds. What is the total synaptic delay in seconds, to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A white blood cell count rises from 200 units by 25 percent. What is the new count in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A hormone concentration starts at 5 units and doubles 4 times. What is the final concentration in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A nerve impulse travels 5 metres at a speed of 25 metres per second. How many seconds does the impulse take, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A signal passes through 5 neurons in a row, and each synapse adds a delay of 0.002 seconds. What is the total synaptic delay in seconds, to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A white blood cell count rises from 80 units by 50 percent. What is the new count in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 80
2. 0.10
3. 0.006
4. 120.00
5. B
6. D
7. D
8. C
9. B
10. C
11. A
12. B
13. A
14. D
15. D
16. A
17. C
18. 80
19. 0.10
20. 0.008
21. 250.00
22. 80
23. 0.20
24. 0.010
25. 120.00

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