BIOLOGY 2201 · NEWFOUNDLAND AND LABRADOR

Biology 2201

Practice Test

Unit C: Maintaining Dynamic Equilibrium I

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

Recall the definition. Homeostasis is

A) the maintenance of stable internal conditions

B) a change in DNA

C) the growth of a population

D) the loss of water only

Understand It with Pulse | Flag a mistake

Question 2

Think about the definition. When blood sugar rises, insulin release is an example of

A) positive feedback

B) negative feedback

C) diffusion

D) active transport

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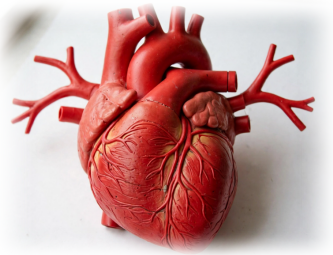

Question 3

Use the standard definition. Arteries carry blood

A) toward the heart

B) only to the lungs

C) away from the heart

D) only in veins

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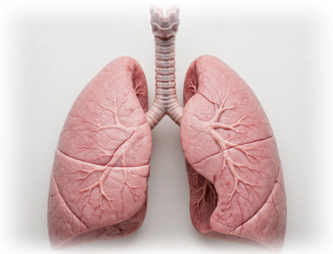

Question 4

Apply the definition carefully. Gas exchange in the lungs occurs mainly in the

A) trachea

B) bronchi only

C) diaphragm

D) alveoli

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Question 5

Consider the meaning of the term. In the stomach, pepsin begins digestion of

A) proteins

B) starch

C) fats

D) vitamins

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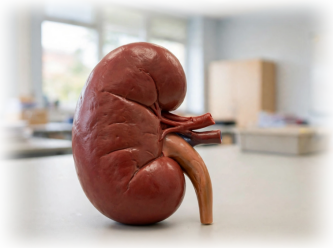
Flag a mistake



Question 6

Review the key idea. The functional unit of the kidney is the

A) alveolus

B) nephron

C) villus

D) neuron

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Flag a mistake

Question 7

A heart beats at 80 beats per minute. In 2 minutes, it beats how many times?

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Question 8

Start from the definition. Oxygen is carried in blood mainly by

A) plasma proteins only

B) white blood cells

C) platelets

D) haemoglobin in red blood cells

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Flag a mistake



Question 9

Remember how the term is defined. An axon carries a nerve impulse

A) away from the cell body

B) toward the cell body

C) only in the brain

D) only to muscles

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Question 10

Use what the term means. Hormones reach target cells by travelling in the

A) air in the lungs

B) blood

C) digestive tract only

D) nerves only

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Question 11

A person breathes 20 times per minute. In 3 minutes, the number of breaths is

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Question 12

Recall the rule. Villi in the small intestine increase

A) stomach acid

B) heart rate

C) lung volume

D) surface area for absorption

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Question 13

Apply the rule. Sweating helps maintain body temperature by

A) evaporative cooling

B) raising blood sugar

C) increasing heart rate only

D) blocking nerve impulses

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Question 14

Consider the rule in general. When the body is dehydrated, ADH levels generally

A) decrease, increasing water loss

B) increase, increasing water reabsorption

C) stay the same

D) stop kidney function

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Question 15

Review the rule. Homeostasis is

A) a change in DNA

B) the growth of a population

C) the maintenance of stable internal conditions

D) the loss of water only

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Question 16

Think about the concept. When blood sugar rises, insulin release is an example of

A) positive feedback

B) diffusion

C) active transport

D) negative feedback

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Question 17

Recall the concept. Arteries carry blood

A) away from the heart

B) toward the heart

C) only to the lungs

D) only in veins

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Question 18

Apply the concept. Gas exchange in the lungs occurs mainly in the

A) trachea

B) alveoli

C) bronchi only

D) diaphragm

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Question 19

Consider the concept in general. In the stomach, pepsin begins digestion of

A) starch

B) fats

C) proteins

D) vitamins

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Question 20

Review the concept. The functional unit of the kidney is the

A) alveolus

B) villus

C) neuron

D) nephron

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Question 21

A heart beats at 75 beats per minute. In 2 minutes, it beats how many times?

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Question 22

Recall the principle. Oxygen is carried in blood mainly by

A) plasma proteins only

B) haemoglobin in red blood cells

C) white blood cells

D) platelets

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Question 23

Apply the principle. An axon carries a nerve impulse

A) toward the cell body

B) only in the brain

C) away from the cell body

D) only to muscles

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Question 24

Consider the principle in general. Hormones reach target cells by travelling in the

A) air in the lungs

B) digestive tract only

C) nerves only

D) blood

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Question 25

A person breathes 16 times per minute. In 5 minutes, the number of breaths is

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A
6. B
7. 160
8. D
9. A
10. B
11. 60
12. D
13. A
14. B
15. C
16. D
17. A
18. B
19. C
20. D
21. 150
22. B
23. C
24. D
25. 80

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