Circulatory, Respiratory, Digestive and Excretory 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 person breathes at 12 breaths per minute with a tidal volume of 500 millilitres per breath. What is the minute ventilation in millilitres per minute**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A resting heart beats at 70 beats per minute. How many beats does it make in 10 minutes**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Cardiac output equals heart rate times stroke volume. If heart rate is 70 beats per minute and stroke volume is 70 millilitres per beat, what is the cardiac output in millilitres per minute**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **One gram of carbohydrate provides 4 kilocalories of energy. How many kilocalories are provided by 10 grams of carbohydrate**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **One gram of fat provides 9 kilocalories of energy. How many kilocalories are provided by 5 grams of fat**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Amylase is an enzyme that breaks down**

A protein

B starch

C fat

D DNA

Understand It with Pulse | Flag a mistake

7

Arteries carry blood

A toward the heart

B only to the lungs

C away from the heart

D only in veins

Understand It with Pulse | Flag a mistake

8

Bile helps digestion by

A emulsifying fats

B breaking down starch

C neutralising protein

D absorbing water

Understand It with Pulse | Flag a mistake

9 **Capillaries are thin walled so that substances can**

A exchange with tissues

B flow quickly only

C avoid the heart

D carry more blood

Understand It with Pulse | Flag a mistake

10 **Deoxygenated blood enters the heart through the**

A left atrium

B right atrium

C left ventricle

D aorta

Understand It with Pulse | Flag a mistake

11 **Gas exchange in the lungs takes place in the**

A trachea

B bronchi only

C diaphragm

D alveoli

Understand It with Pulse | Flag a mistake

12 **Lipase is an enzyme that breaks down**

A starch

B protein

C glucose

D fat

Understand It with Pulse | Flag a mistake

13 **Most nutrient absorption takes place in the**

A stomach

B small intestine

C large intestine

D oesophagus

Understand It with Pulse | Flag a mistake

14 **One gram of protein provides 4 kilocalories of energy. How many kilocalories are provided by 15 grams of protein**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Oxygenated blood is pumped to the body by the**

A left ventricle

B right ventricle

C left atrium

D right atrium

Understand It with Pulse | Flag a mistake

16 **Pepsin is an enzyme that begins the digestion of**

A starch

B fat

C protein

D cellulose

Understand It with Pulse | Flag a mistake

17 **Platelets help with**

A oxygen transport

B digestion

C gas exchange

D blood clotting

Understand It with Pulse | Flag a mistake

18 **A person breathes at 15 breaths per minute with a tidal volume of 400 millilitres per breath. What is the minute ventilation in millilitres per minute**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A resting heart beats at 80 beats per minute. How many beats does it make in 5 minutes**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Cardiac output equals heart rate times stroke volume. If heart rate is 80 beats per minute and stroke volume is 60 millilitres per beat, what is the cardiac output in millilitres per minute**

ANSWER

Understand It with Pulse | Flag a mistake

21 **One gram of carbohydrate provides 4 kilocalories of energy. How many kilocalories are provided by 20 grams of carbohydrate**

ANSWER

Understand It with Pulse | Flag a mistake

22 **One gram of fat provides 9 kilocalories of energy. How many kilocalories are provided by 10 grams of fat**

ANSWER

Understand It with Pulse | Flag a mistake

23 **A person breathes at 20 breaths per minute with a tidal volume of 500 millilitres per breath. What is the minute ventilation in millilitres per minute**

ANSWER

Understand It with Pulse | Flag a mistake

24 **A resting heart beats at 60 beats per minute. How many beats does it make in 15 minutes**

ANSWER

Understand It with Pulse | Flag a mistake

25 **Cardiac output equals heart rate times stroke volume. If heart rate is 60 beats per minute and stroke volume is 80 millilitres per beat, what is the cardiac output in millilitres per minute**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 6000
2. 700
3. 4900
4. 40
5. 45
6. B
7. C
8. A
9. A
10. B
11. D
12. D
13. B
14. 60
15. A
16. C
17. D
18. 6000
19. 400
20. 4800
21. 80
22. 90
23. 10000
24. 900
25. 4800

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