ENGLAND GCSE BIOLOGY EDEXCEL FOUNDATION · UNIT 8 · 25 QUESTIONS

Exchange and Transport in Animals — 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 so it can be fixed.

1 **Hardcover books are stacked on a table. What force pulls them down?**

- A tension
- B gravity
- C air resistance
- D friction

Understand It with Pulse | Flag a mistake

2 **A school lunch tray holds a meal with milk. Which nutrient is milk rich in?**

- A fibre
- B iron
- C calcium
- D vitamin C

Understand It with Pulse | Flag a mistake

3 **A passenger train travels at a steady speed. What is its acceleration?**

- A 0 m/s²
- B 1 m/s²
- C 10 m/s²
- D 9.8 m/s²

Understand It with Pulse | Flag a mistake

4 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 100
- B 0
- C 10
- D 32

Understand It with Pulse | Flag a mistake

5 **Eggs contain protein. Which part of the egg is mostly protein?**

- A the white
- B the yolk
- C the shell
- D the air sac

Understand It with Pulse | Flag a mistake

6 **A yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

- A an artery
- B a ventricle
- C a capillary
- D a vein

Understand It with Pulse | Flag a mistake

7 **A heart beats 75 times per minute. Each beat pumps 80 mL of blood. Calculate the cardiac output in mL per minute.**

- A 12000
- B 3000
- C 6100
- D 6000

Understand It with Pulse | Flag a mistake

8

Why do capillaries have thin walls?

A so substances diffuse quickly

B so they can stretch with each heartbeat

C so blood can flow through them quickly

D so they can carry blood to the heart

Understand It with Pulse | Flag a mistake

9

What is a natural pacemaker?

A a valve that opens and closes

B a machine fitted in the chest

C a nerve from the brain

D cells that set the heartbeat

Understand It with Pulse | Flag a mistake

10 **A heart beats 80 times per minute. How many beats is that in one hour?**

- A 9600
- B 4800
- C 4200
- D 5400

Understand It with Pulse | Flag a mistake

11 **What happens to the rate of respiration during exercise?**

- A it falls to almost nothing
- B it stays exactly the same
- C it increases
- D it stops until exercise ends

Understand It with Pulse | Flag a mistake

12 **A person breathes 20 times per minute. How many breaths is that in one hour?**

- A 1200
- B 2400
- C 1260
- D 1140

Understand It with Pulse | Flag a mistake

13 **What does plasma carry?**

- A carbon dioxide only
- B dissolved substances
- C white blood cells only
- D oxygen joined to haemoglobin

Understand It with Pulse | Flag a mistake

14 **A heart beats 80 times per minute and pumps 80 mL per beat. What is the cardiac output in mL per minute?**

- A 6900 mL/min
- B 6400 mL/min
- C 5900 mL/min
- D 12800 mL/min

Understand It with Pulse | Flag a mistake

15 **What happens to the ribs when breathing in?**

- A they move up and out
- B they close off the windpipe
- C they stay still while air enters
- D they move down and inwards

Understand It with Pulse | Flag a mistake

16 **A heart beats 80 times per minute. Each beat pumps 80 mL of blood. Calculate the cardiac output in mL per minute.**

- A 12800
- B 6400
- C 3200
- D 6500

Understand It with Pulse | Flag a mistake

17 **Which component of blood carries oxygen?**

- A plasma
- B white blood cells
- C platelets
- D red blood cells

Understand It with Pulse | Flag a mistake

18 **What does the coronary artery supply?**

A the heart muscle

B the brain with oxygen

C the liver with glucose

D the lungs with blood

Understand It with Pulse | Flag a mistake

19 **Why is the temperature kept the same in a respirometer experiment?**

A the soda lime only works when it is cold

B the organism stops breathing when it is warm

C temperature affects the rate

D the coloured liquid freezes when it is warm

Understand It with Pulse | Flag a mistake

20 **A person breathes 15 times per minute. How many breaths is that in one hour?**

- A 900
- B 1800
- C 960
- D 840

Understand It with Pulse | Flag a mistake

21 **What do white blood cells do?**

- A carry oxygen around the body
- B defend against pathogens
- C carry glucose to the muscles
- D help the blood to clot

Understand It with Pulse | Flag a mistake

22 **A heart beats 60 times per minute and pumps 80 mL per beat. What is the cardiac output in mL per minute?**

- A 5300 mL/min
- B 9600 mL/min
- C 4800 mL/min
- D 4300 mL/min

Understand It with Pulse | Flag a mistake

23 **What is the job of a vein?**

- A to carry blood away from the heart
- B to exchange substances with tissues
- C to carry blood towards the heart
- D to pump the blood around the body

Understand It with Pulse | Flag a mistake

24 **What do valves in the heart do?**

A slow the heartbeat down

B stop blood flowing back

C push blood into the lungs

D filter the blood

Understand It with Pulse | Flag a mistake

25 **A heart beats 60 times per minute. How many beats is that in one hour?**

A 3000

B 7200

C 4200

D 3600

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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