ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 5 · 25 QUESTIONS

Homeostasis and Response — 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 **A sandwich provides energy. Which process releases energy from food in cells?**

- A photosynthesis
- B digestion
- C respiration
- D fermentation

Understand It with Pulse | Flag a mistake

2 **A peach is a fruit. Which part of the flower does it develop from?**

- A the stigma
- B the petal
- C the ovary
- D the anther

Understand It with Pulse | Flag a mistake

3 **Red apples contain vitamin C. What is vitamin C needed for?**

- A good eyesight at night
- B healthy skin and gums
- C making red blood cells
- D strong bones and teeth

Understand It with Pulse | Flag a mistake

4 **A thermometer shows a runner's skin temperature falls after she starts sweating. Why?**

- A evaporating sweat takes heat away
- B sweat blocks heat loss
- C sweat warms the skin
- D sweat makes the blood thicker and slower

Understand It with Pulse | Flag a mistake

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

A the shell

B the yolk

C the white

D the air sac

Understand It with Pulse | Flag a mistake

6 **A school lunch tray holds a meal with bread, cheese and an apple. Which food group is the bread from?**

A vitamins, for health

B carbohydrates

C fats, for insulation

D proteins, for growth

Understand It with Pulse | Flag a mistake

7 **Body temperature is 37 degrees Celsius. It rises by 2 degrees. What is the temperature now?**

A 38 degrees Celsius

B 41 degrees Celsius

C 39 degrees Celsius

D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

8 **How do hormones travel around the body?**

A through the skin

B in the lymph only

C along nerves

D in the blood

Understand It with Pulse | Flag a mistake

9 **What is a reflex action?**

A a hormonal response

B a learned behaviour

C a fast automatic response

D a slow thought-out response

Understand It with Pulse | Flag a mistake

10 **What is vasodilation?**

A blood vessels near the skin narrow

B blood vessels near the skin widen

C the heart beats faster

D sweat glands close

Understand It with Pulse | Flag a mistake

11 **Which plant hormone ripens fruit?**

A ethene

B gibberellin

C auxin

D adrenaline

Understand It with Pulse | Flag a mistake

12 **What is insulin?**

A an enzyme that digests glucose

B a nerve signal

C a hormone that raises blood glucose

D a hormone that lowers blood glucose

Understand It with Pulse | Flag a mistake

13 **After a meal, blood glucose rises. What happens next?**

A nothing happens

B insulin is released

C adrenaline is released

D glucagon is released

Understand It with Pulse | Flag a mistake

14 **Blood glucose falls from 8 mmol per litre to 4 mmol per litre. What is the fall?**

A 4 mmol/L

B 6 mmol/L

C 5 mmol/L

D 3 mmol/L

Understand It with Pulse | Flag a mistake

15 **What does ADH do?**

A increases urine volume

B increases water reabsorption

C stops the kidneys working

D decreases water reabsorption

Understand It with Pulse | Flag a mistake

16 **What is adrenaline?**

A the growth hormone, made in childhood

B the sleep hormone, made at night

C the hunger hormone, made before meals

D the fight or flight hormone

Understand It with Pulse | Flag a mistake

17 **Which type of diabetes is treated with insulin injections?**

A type 2 diabetes

B neither type

C both types equally

D type 1 diabetes

Understand It with Pulse | Flag a mistake

18 **Blood glucose falls from 8 mmol per litre to 5 mmol per litre. What is the fall?**

A 3 mmol/L

B 2 mmol/L

C 4 mmol/L

D 5 mmol/L

Understand It with Pulse | Flag a mistake

19 **Body temperature is 37 degrees Celsius. It rises by 3 degrees. What is the temperature now?**

A 40 degrees Celsius

B 41 degrees Celsius

C 42 degrees Celsius

D 39 degrees Celsius

Understand It with Pulse | Flag a mistake

20 **What is the job of a receptor?**

A to store information

B to detect a change

C to carry a message

D to make a response

Understand It with Pulse | Flag a mistake

21 **What is phototropism?**

A growth towards water

B growth towards gravity

C growth away from light

D growth towards light

Understand It with Pulse | Flag a mistake

22 **What is ADH?**

A a hormone that controls water balance

B a hormone that controls sleep at night

C a hormone that controls growth in children

D a hormone that controls glucose levels

Understand It with Pulse | Flag a mistake

23 **When the body is dehydrated, what happens to ADH levels?**

- A they rise
- B ADH is not made
- C they stay the same
- D they fall

Understand It with Pulse | Flag a mistake

24 **Body temperature is 37 degrees Celsius. It rises by 1 degrees. What is the temperature now?**

- A 38 degrees Celsius
- B 39 degrees Celsius
- C 37 degrees Celsius
- D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

25

In a reflex, where does the impulse go after the receptor?

A to a hormone

B to a relay neurone

C straight to the effector

D to the brain first

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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