ENGLAND GCSE BIOLOGY AQA HIGHER · 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 **Eggs can carry Salmonella bacteria. What should you do before eating eggs?**

- A eat them raw
- B leave them in the sun
- C wash them in cold water
- D cook them thoroughly

Understand It with Pulse | Flag a mistake

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

- A carbohydrates
- B proteins, for growth
- C fats, for insulation
- D vitamins, for health

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **A peach tree flowers in spring. What do bees carry between flowers?**

- A pollen
- B water
- C leaves
- D seeds

Understand It with Pulse | Flag a mistake

5 **A sandwich provides energy. Which process releases energy from food in cells?**

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

Understand It with Pulse | Flag a mistake

6 **Red apples are cut and left in air. Why do they turn brown?**

- A they ferment into alcohol
- B they dry out in the air
- C enzymes react with oxygen
- D they freeze in the cold

Understand It with Pulse | Flag a mistake

7 **What does dialysis do?**

A it removes salt from the diet

B it makes new kidney tissue

C it replaces a failed kidney permanently

D it filters the blood artificially

Understand It with Pulse | Flag a mistake

8 **What is thyroxine?**

A a hormone that controls metabolism

B a hormone that controls growth in children

C a hormone that controls sleep at night

D a hormone that controls hunger before meals

Understand It with Pulse | Flag a mistake

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

- A 42 degrees Celsius
- B 41 degrees Celsius
- C 39 degrees Celsius
- D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

10 **How does sweating cool the body?**

- A sweat warms the skin surface
- B sweat evaporates from the skin
- C sweat carries heat into the blood
- D sweat blocks the pores

Understand It with Pulse | Flag a mistake

11 **What does oestrogen do?**

A it triggers ovulation

B it stimulates eggs to mature

C it maintains the lining after ovulation

D it thickens the uterus lining

Understand It with Pulse | Flag a mistake

12 **Why does a shoot bend towards light?**

A more auxin on the shaded side

B the lit side grows faster

C auxin builds up on the lit side

D the roots pull the shoot over

Understand It with Pulse | Flag a mistake

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

A to the brain first

B straight to the effector

C to a hormone

D to a relay neurone

Understand It with Pulse | Flag a mistake

14 **Blood glucose falls from 9 mmol per litre to 4 mmol per litre. What is the fall?**

A 4 mmol/L

B 7 mmol/L

C 6 mmol/L

D 5 mmol/L

Understand It with Pulse | Flag a mistake

15 **What does insulin do?**

A it lowers blood glucose

B it raises blood glucose

C it stores glucose in the blood

D it breaks down glycogen in the liver

Understand It with Pulse | Flag a mistake

16 **What is a risk factor for type 2 diabetes?**

A exercising daily

B eating vegetables

C being underweight

D being overweight

Understand It with Pulse | Flag a mistake

17 **Which is faster, a nerve impulse or a hormone?**

A they are the same speed

B a hormone in the blood

C a hormone

D a nerve impulse

Understand It with Pulse | Flag a mistake

18 **What happens when ADH levels are high?**

A a large volume of concentrated urine

B no urine at all

C a small volume of concentrated urine

D a large volume of dilute urine

Understand It with Pulse | Flag a mistake

19 **What is ADH?**

A a hormone that controls growth in children

B a hormone that controls sleep at night

C a hormone that controls glucose levels

D a hormone that controls water balance

Understand It with Pulse | Flag a mistake

20 **What is the job of the kidneys?**

A to filter the blood

B to pump the blood

C to store urine

D to make red blood cells

Understand It with Pulse | Flag a mistake

21 **What does progesterone do?**

A it thickens the lining before ovulation

B it maintains the uterus lining

C it stimulates eggs to mature

D it triggers ovulation

Understand It with Pulse | Flag a mistake

22 **What do auxins control in plants?**

A the ripening of fruit

B growth towards light

C the germination of seeds

D the opening of flowers

Understand It with Pulse | Flag a mistake

23 **Which neurone carries the impulse from the receptor to the CNS?**

- A a sensory neurone
- B an effector neurone
- C a motor neurone
- D a relay neurone

Understand It with Pulse | Flag a mistake

24 **Which plant hormone ripens fruit?**

- A auxin
- B gibberellin
- C adrenaline
- D ethene

Understand It with Pulse | Flag a mistake

25 **What is the name for the gap between two neurones?**

A an effector

B a synapse

C a dendron

D a receptor

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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