ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY 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 **Red apples are cut and left in air. Why do they turn brown?**

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

Understand It with Pulse | Flag a mistake

2 **Eggs can carry Salmonella bacteria. What should you do before eating eggs?**

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

Understand It with Pulse | Flag a mistake

3 **A school lunch tray holds a meal. Why do we need food?**

- A to stay awake at night
- B to feel full after eating
- C for energy and growth
- D for fun only, not for health

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 makes the blood thicker and slower
- C sweat blocks heat loss
- D sweat warms the skin

Understand It with Pulse | Flag a mistake

5 **A sandwich contains bread and cheese. Where does digestion begin?**

- A in the large intestine
- B in the stomach
- C in the small intestine
- D in the mouth

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

7 **Which plant hormone makes shoots bend towards light?**

A insulin

B ethene

C gibberellin

D auxin

Understand It with Pulse | Flag a mistake

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

A being overweight

B eating vegetables

C being underweight

D exercising daily

Understand It with Pulse | Flag a mistake

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

A along nerves

B in the lymph only

C in the blood

D through the skin

Understand It with Pulse | Flag a mistake

10 **What is adrenaline?**

A the hunger hormone, made before meals

B the growth hormone, made in childhood

C the sleep hormone, made at night

D the fight or flight hormone

Understand It with Pulse | Flag a mistake

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

A 4 mmol/L

B 5 mmol/L

C 6 mmol/L

D 7 mmol/L

Understand It with Pulse | Flag a mistake

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

A 37 degrees Celsius

B 38 degrees Celsius

C 39 degrees Celsius

D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

13 **Which plant hormone ripens fruit?**

A auxin

B adrenaline

C gibberellin

D ethene

Understand It with Pulse | Flag a mistake

14 **What does insulin do?**

A stops glucose entering cells

B lowers blood glucose

C raises blood glucose

D keeps blood glucose steady

Understand It with Pulse | Flag a mistake

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

A a nerve impulse

B they are the same speed

C a hormone

D a hormone in the blood

Understand It with Pulse | Flag a mistake

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

A to carry a message

B to store information

C to detect a change

D to make a response

Understand It with Pulse | Flag a mistake

17 **What does the pituitary gland do?**

A it makes adrenaline in stress

B it makes insulin for the body

C it makes thyroxine for metabolism

D it makes many hormones

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 2 mmol/L

B 5 mmol/L

C 4 mmol/L

D 3 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 41 degrees Celsius

B 39 degrees Celsius

C 42 degrees Celsius

D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

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

A an effector

B a receptor

C a synapse

D a dendron

Understand It with Pulse | Flag a mistake

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

A neither type

B both types equally

C type 2 diabetes

D type 1 diabetes

Understand It with Pulse | Flag a mistake

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

A to a hormone

B to the brain first

C to a relay neurone

D straight to the effector

Understand It with Pulse | Flag a mistake

23 **What is thyroxine?**

A a hormone that controls hunger before meals

B a hormone that controls growth in children

C a hormone that controls metabolism

D a hormone that controls sleep at night

Understand It with Pulse | Flag a mistake

24 **What is vasodilation?**

A blood vessels near the skin widen

B blood vessels near the skin narrow

C sweat glands close

D the heart beats faster

Understand It with Pulse | Flag a mistake

25

Blood glucose falls from 10 mmol per litre to 4 mmol per litre. What is the fall?

A 5 mmol/L

B 8 mmol/L

C 7 mmol/L

D 6 mmol/L

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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