ENGLAND GCSE BIOLOGY OCR GATEWAY HIGHER · UNIT 2 · 25 QUESTIONS

Scaling Up — 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 thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

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

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

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

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

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

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4 **Red apples are cut and left in the air. They turn brown because an enzyme in the apple reacts with oxygen. What would slow this browning down?**

- A leaving them in sunlight all day
- B cutting them smaller
- C warming them up
- D putting them in a fridge

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5 **A yellow school bus is full of children. What is its mass like?**

- A smaller than when empty
- B larger than when empty
- C zero
- D the same as when empty

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6 **A school lunch tray holds a bread roll, cheese and an apple. Which food test would show starch in the bread roll?**

- A iodine turns blue-black
- B Benedict's turns brick red
- C Sudan III turns red
- D Biuret turns purple

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7 **What does a stent do?**

A replaces a valve

B holds an artery open

C lowers blood pressure

D removes a blood clot

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

A 5900 mL/min

B 12800 mL/min

C 6900 mL/min

D 6400 mL/min

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9 **Which component of blood helps blood to clot?**

A red blood cells

B platelets

C white blood cells

D plasma

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10 **How do statins help to prevent heart disease?**

A they thin the blood permanently

B they make the heart beat faster

C they lower blood cholesterol

D they widen the arteries directly

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11 **Which lifestyle factor increases the risk of type 2 diabetes?**

A regular exercise

B obesity

C drinking plenty of water

D a low sugar diet

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12 **What do guard cells do?**

A make chlorophyll

B carry sugars down the stem

C absorb water from soil

D open and close the stomata

Understand It with Pulse | Flag a mistake

13 **What does lock and key mean for an enzyme?**

A the active site fits one substrate

B the enzyme fits into the substrate

C the enzyme needs a key to start

D the substrate changes the enzyme shape permanently

Understand It with Pulse | Flag a mistake

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

A 9600

B 4800

C 5400

D 4200

Understand It with Pulse | Flag a mistake

15 **An enzyme reaction is fastest at 30 degrees Celsius. At 50 degrees Celsius the rate is much lower. Why?**

- A the enzyme works faster
- B the enzyme is digested
- C the substrate runs out
- D the enzyme is denatured

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16 **Why do red blood cells have no nucleus?**

- A to fight infection better
- B to live for longer
- C to divide more quickly in the bone marrow
- D to carry more haemoglobin

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17 **Lipase breaks lipids down into fatty acids and what else?**

A amino acids

B glycerol

C starch

D sugars

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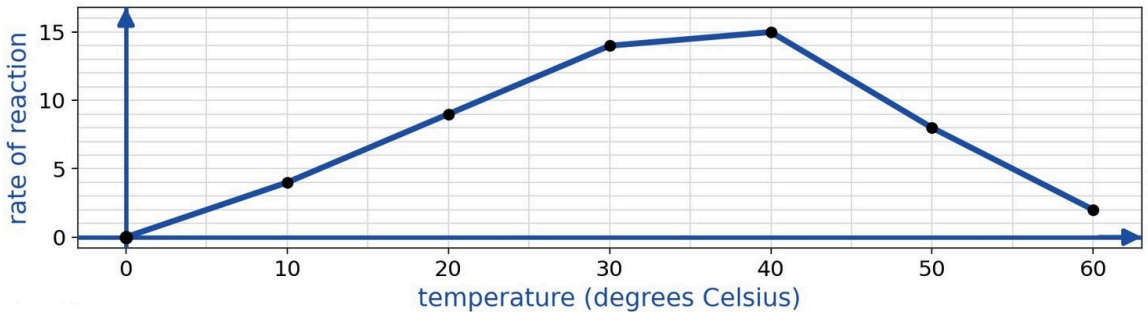
18 **The graph shows the rate of an enzyme reaction at different temperatures. At which temperature is the rate highest?**



A 20

B 30

C 60

D 40

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19 **Which factor increases the rate of transpiration?**

A a lower light level

B a higher temperature

C still air around the leaves

D a higher humidity

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20 **Which of these is a risk factor for heart disease?**

A smoking

B exercising daily

C drinking water

D eating vegetables

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21 **A heart beats 70 times per minute and pumps 70 mL per beat. What is the cardiac output in mL per minute?**

- A 4400 mL/min
- B 9800 mL/min
- C 4900 mL/min
- D 5400 mL/min

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22 **Which blood vessel carries blood away from the heart?**

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

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

- A the liver with glucose
- B the heart muscle
- C the brain with oxygen
- D the lungs with blood

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24 **Where are villi found?**

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

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25

What is cancer?

A uncontrolled cell division

B a lack of white blood cells

C a blocked blood vessel

D a virus infecting the body

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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