ENGLAND GCSE COMBINED SCIENCE 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 school lunch tray holds a bread roll, cheese and an apple. Which food test would show starch in the bread roll?**

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

Understand It with Pulse | Flag a mistake

2 **A sandwich contains bread, cheese and lettuce. Which enzyme starts breaking down the bread in the mouth?**

- A protease
- B lipase
- C amylase
- D pepsin

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

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

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4 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A above normal
- B exactly normal
- C impossible to tell
- D below normal

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

A leave them in the sun

B cook them thoroughly

C wash them in cold water

D eat them raw

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6 **A yellow school bus stops at a station. What happens to its speed?**

A it becomes zero

B it increases

C it becomes negative

D it stays the same

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7 **Why does pepsin work best in the stomach?**

A the stomach is alkaline

B the stomach is acidic

C the stomach is neutral

D the stomach is cold

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8 **What does a stent do?**

A lowers blood pressure

B holds an artery open

C removes a blood clot

D replaces a valve

Understand It with Pulse | Flag a mistake

9 **Which test shows that a food contains protein?**

A iodine turns blue-black

B Biuret turns purple

C Benedict's turns orange

D Sudan III turns red

Understand It with Pulse | Flag a mistake

10 **Which tissue carries water up a plant?**

A cambium

B xylem

C phloem

D epidermis

Understand It with Pulse | Flag a mistake

11 **What is a stent?**

A a drug that lowers cholesterol

B a machine that filters the blood

C a replacement heart valve

D a tube keeping an artery open

Understand It with Pulse | Flag a mistake

12 **Where are villi found?**

A the stomach

B the mouth

C the large intestine

D the small intestine

Understand It with Pulse | Flag a mistake

13 **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 substrate runs out
- C the enzyme is denatured
- D the enzyme is digested

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

15 **What does protease break down?**

A lipids to fatty acids and glycerol

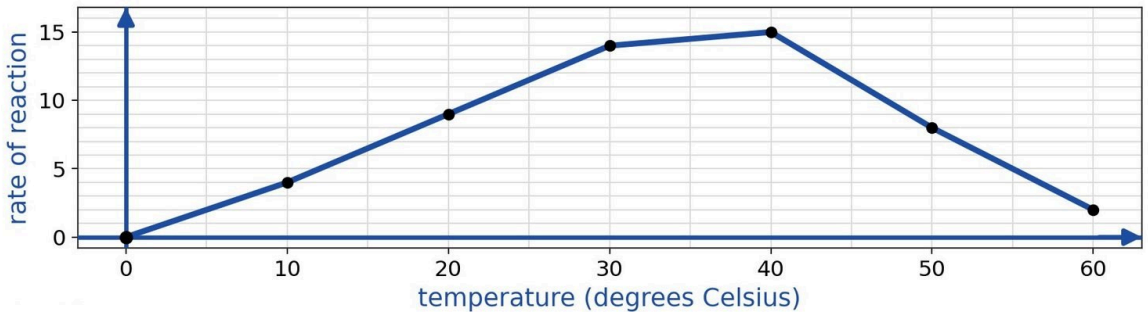
B fats to glucose and water

C starch to sugars

D proteins to amino acids

Understand It with Pulse | Flag a mistake

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



A 30

B 60

C 40

D 20

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17 **A heart beats 70 times per minute. How many beats is that in one hour?**

- A 4200
- B 3600
- C 4800
- D 8400

Understand It with Pulse | Flag a mistake

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

- A drinking plenty of water
- B regular exercise
- C obesity
- D a low sugar diet

Understand It with Pulse | Flag a mistake

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

A to divide more quickly in the bone marrow

B to carry more haemoglobin

C to fight infection better

D to live for longer

Understand It with Pulse | Flag a mistake

20 **Amylase breaks starch down into which substance?**

A sugars

B fatty acids

C glycerol

D amino acids

Understand It with Pulse | Flag a mistake

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

A eating vegetables

B drinking water

C smoking

D exercising daily

Understand It with Pulse | Flag a mistake

22 **What do stomata do?**

A catch light for photosynthesis

B absorb water from the soil

C let gases in and out

D carry food around the plant

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **A heart beats 80 times per minute and pumps 70 mL per beat. What is the cardiac output in mL per minute?**

- A 11200 mL/min
- B 6100 mL/min
- C 5100 mL/min
- D 5600 mL/min

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25

What does lock and key mean for an enzyme?

A the substrate changes the enzyme shape permanently

B the enzyme needs a key to start

C the active site fits one substrate

D the enzyme fits into the substrate

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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