ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 2 · 25 QUESTIONS

Organisation — 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 passenger train brakes. What force slows it down?**

- A friction
- B gravity, pulling it down
- C lift
- D thrust

Understand It with Pulse | Flag a mistake

2 **A yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

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

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3 **Hardcover books are stacked on a table. What force pulls them down?**

- A gravity
- B tension
- C friction
- D air resistance

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

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

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

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

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

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7 **Which plant tissue carries water up the plant?**

A epidermis

B xylem

C cortex

D phloem

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

A 5400

B 4200

C 4800

D 9600

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9 **Which of these increases the risk of cancer?**

A smoking

B eating fruit

C drinking water

D exercising

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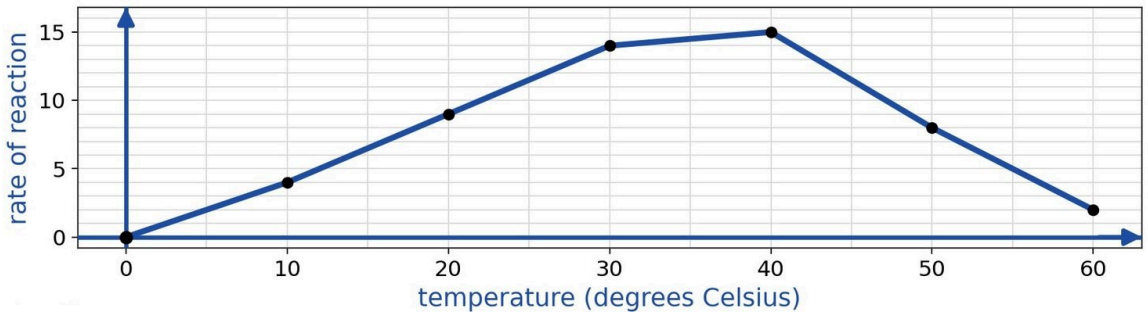
10 **The graph shows the rate of an enzyme reaction at different temperatures. At which temperature is the rate highest?**



A 40

B 20

C 60

D 30

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

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

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

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

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

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

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14 **What is the lock and key model?**

- A enzymes work at any pH
- B an enzyme fits any substrate
- C a substrate fits any enzyme
- D an enzyme fits one substrate

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15 **Which test shows that a food contains lipid?**

A iodine turns blue-black

B Sudan III turns red

C Biuret turns purple

D Benedict's turns brick red

Understand It with Pulse | Flag a mistake

16 **What is transpiration?**

A water loss from leaves

B sugar transport in phloem

C water uptake by roots

D photosynthesis in leaves

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17 **A heart beats 60 times per minute. How many beats is that in one hour?**

- A 4200
- B 7200
- C 3000
- D 3600

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

- A the stomach is acidic
- B the stomach is neutral
- C the stomach is alkaline
- D the stomach is cold

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

A drinking water

B eating vegetables

C smoking

D exercising daily

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20 **An enzyme reaction is fastest at 40 degrees Celsius. At 60 degrees Celsius the rate is much lower. Why?**

A the enzyme works faster

B the substrate runs out

C the enzyme is digested

D the enzyme is denatured

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

A 6100 mL/min

B 11200 mL/min

C 5100 mL/min

D 5600 mL/min

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22 **Protease breaks protein down into which substance?**

A fatty acids

B starch

C amino acids

D sugars

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **Which pH is best for most enzymes in the small intestine?**

- A slightly alkaline
- B very acidic
- C strongly alkaline
- D strongly acidic

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25

Which component of blood carries oxygen?

A plasma

B white blood cells

C platelets

D red blood cells

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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