ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · 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 sandwich provides energy. Which process releases energy from food in cells?**

A photosynthesis

B fermentation

C respiration

D digestion

Understand It with Pulse | Flag a mistake

2 **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 leaving them in sunlight all day

C putting them in a fridge

D warming them up

Understand It with Pulse | Flag a mistake

3 **Eggs are produced by hens. What is the female reproductive cell called?**

A a sperm cell

B an egg cell

C an embryo

D a zygote

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

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6

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

A exactly normal

B impossible to tell

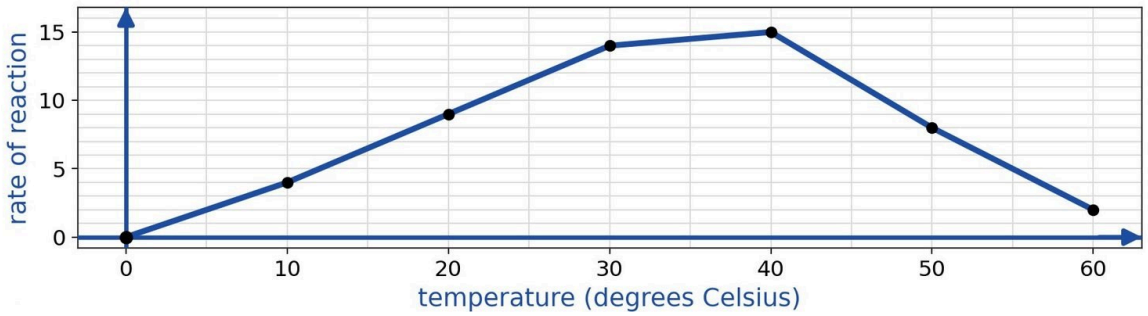
C above normal

D below normal

Understand It with Pulse

Flag a mistake

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



A 40

B 20

C 30

D 60

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

A fatty acids

B glycerol

C sugars

D amino acids

Understand It with Pulse | Flag a mistake

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

A starch

B amino acids

C sugars

D glycerol

Understand It with Pulse | Flag a mistake

10 **An enzyme reaction is fastest at 20 degrees Celsius. At 40 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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

12 **Where are villi found?**

A the small intestine

B the mouth

C the stomach

D the large intestine

Understand It with Pulse | Flag a mistake

13 **Which tissue carries dissolved food around a plant?**

A cambium

B xylem

C phloem

D epidermis

Understand It with Pulse | Flag a mistake

14 **Why can a correlation between two factors not prove one causes the other?**

- A scientists cannot measure risk
- B another factor may cause both
- C the sample is always too small
- D correlations are always wrong

Understand It with Pulse | Flag a mistake

15 **What is a natural pacemaker?**

- A cells that set the heartbeat
- B a machine fitted in the chest
- C a nerve from the brain
- D a valve that opens and closes

Understand It with Pulse | Flag a mistake

16 **Why is bile alkaline?**

A it neutralises stomach acid

B it makes enzymes work in acid

C it kills bacteria in food

D it dissolves fat in water

Understand It with Pulse | Flag a mistake

17 **What does plasma carry?**

A white blood cells only

B carbon dioxide only

C dissolved substances

D oxygen joined to haemoglobin

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

A drinking water

B eating fruit

C exercising

D smoking

Understand It with Pulse | Flag a mistake

21 **Which enzyme breaks down starch?**

A protease

B catalase

C amylase

D lipase

Understand It with Pulse | Flag a mistake

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

- A 4200
- B 9600
- C 4800
- D 5400

Understand It with Pulse | Flag a mistake

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

- A still air around the leaves
- B a higher humidity
- C a higher temperature
- D a lower light level

Understand It with Pulse | Flag a mistake

24 **Which is a risk factor for heart disease?**

A a healthy body mass

B a balanced diet

C smoking

D regular exercise

Understand It with Pulse | Flag a mistake

25 **Why is the wall of the left ventricle thicker than the right?**

A it pumps blood to the lungs only

B it stores blood for the heart

C it beats faster than the right side

D it pumps blood around the body

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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