ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 4 · 25 QUESTIONS

Using Food and Controlling Growth — 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 peach contains a stone. What is inside the stone?**

- A a seed
- B a root
- C a leaf
- D a flower

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2 **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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3 **A sandwich contains bread, cheese and lettuce. Which enzyme starts breaking down the bread in the mouth?**

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

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

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5 **A chocolate cake is baked. Is baking a chemical change?**

- A no
- B yes
- C sometimes
- D never

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

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

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7 **Why are school cultures incubated at 25 degrees Celsius, not 37 degrees Celsius?**

- A to save electricity in the laboratory
- B to stop the agar from melting
- C to avoid growing microbes that harm humans
- D to make the bacteria grow more slowly for counting

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

A amino acids

B sugars

C fatty acids

D starch

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9 **Where are stem cells found in an adult human?**

A in the bone marrow

B in the skin only

C in every organ in equal numbers

D in the liver only

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10 **What is the pH of bile?**

A acidic

B strongly acidic

C alkaline

D neutral

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11 **Why is bile alkaline?**

A it kills bacteria in food

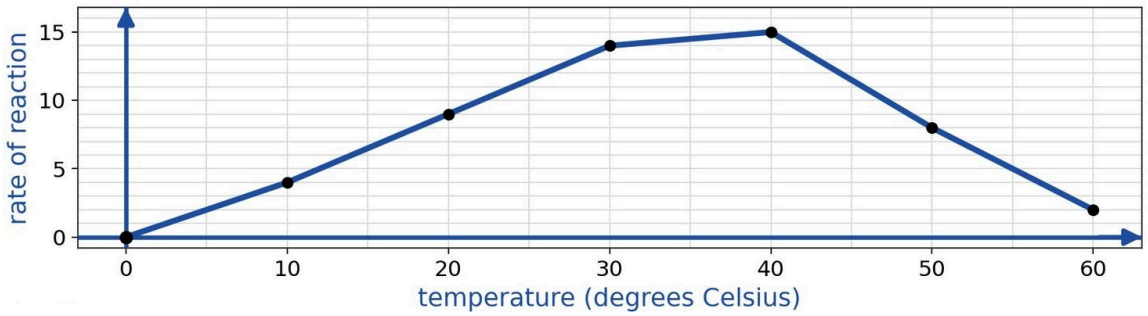
B it dissolves fat in water

C it neutralises stomach acid

D it makes enzymes work in acid

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



A 30

B 40

C 60

D 20

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13 **What is the basal metabolic rate?**

A energy stored as fat

B energy used at rest

C energy from food

D energy used in exercise

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14 **Which enzyme breaks down starch?**

A protease

B lipase

C catalase

D amylase

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15 **A person breathes 20 times per minute. How many breaths is that in one hour?**

- A 1140
- B 1200
- C 1260
- D 2400

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16 **A single bacterium divides every 20 minutes. How many bacteria are there after 5 divisions?**

- A 16
- B 34
- C 32
- D 64

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

A the enzyme is denatured

B the enzyme is digested

C the substrate runs out

D the enzyme works faster

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18 **What are auxins used for in farming?**

A to ripen fruit quickly

B to stop plants growing tall

C as weedkillers

D to make seeds germinate

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19 **A body cell with 46 chromosomes divides by mitosis. How many chromosomes does each daughter cell have?**

- A 12
- B 92
- C 23
- D 46

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20 **One glucose molecule releases 30 molecules of ATP in respiration. How many ATP molecules are released from 5 glucose molecules?**

- A 150
- B 120
- C 300
- D 180

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21 **Which structure is found in a bacterial cell but not in an animal cell?**

- A a ribosome
- B a nucleus
- C a plasmid
- D a mitochondrion

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22 **Which enzyme breaks down lipids?**

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

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23 **Where are villi found?**

A the large intestine

B the small intestine

C the stomach

D the mouth

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24 **What is therapeutic cloning?**

A making a copy of an adult animal

B treating disease with an embryo

C copying DNA in a laboratory

D growing plants from cuttings

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25

What does protease break down?

A starch to sugars

B lipids to fatty acids and glycerol

C proteins to amino acids

D fats to glucose and water

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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