ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 1 · 25 QUESTIONS

Key Concepts in Biology — 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 **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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2 **A school lunch tray holds a meal. Why do we need food?**

- A to stay awake at night
- B to feel full after eating
- C for energy and growth
- D for fun only, not for health

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3 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it freezes
- B it evaporates
- C it expands
- D it contracts

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4 **A sunflower leaf cell contains chloroplasts. What is the job of the chloroplasts?**

A to release energy in respiration from glucose

B to absorb light for photosynthesis

C to store water as cell sap

D to control the cell

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5 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

A particles flow past each other easily

B particles move freely through space

C particles vibrate in fixed positions

D particles are far apart from each other

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6 **A peach is a fruit. Which part of the flower does it develop from?**

- A the stigma
- B the anther
- C the ovary
- D the petal

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7 **In osmosis, water moves from where to where?**

- A concentrated to dilute solution
- B dilute to concentrated solution
- C hot to cold water
- D cell to soil

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8 **Photosynthesis produces oxygen at a rate of 5 cm cubed per minute. How much oxygen is produced in 10 minutes?**

- A 50 cm^3
- B 60 cm^3
- C 40 cm^3
- D 100 cm^3

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

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

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10 **A cell of real length 0.01 mm is viewed at a magnification of 400 times. How long is the image of the cell?**

- A 2 mm
- B 8 mm
- C 4 mm
- D 9 mm

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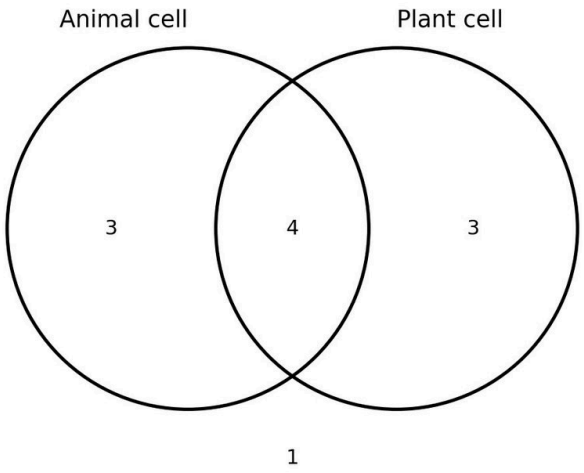
11 **The Venn diagram shows features of animal cells and plant cells. How many features are found in both types of cell?**



A 4

B 6

C 5

D 3

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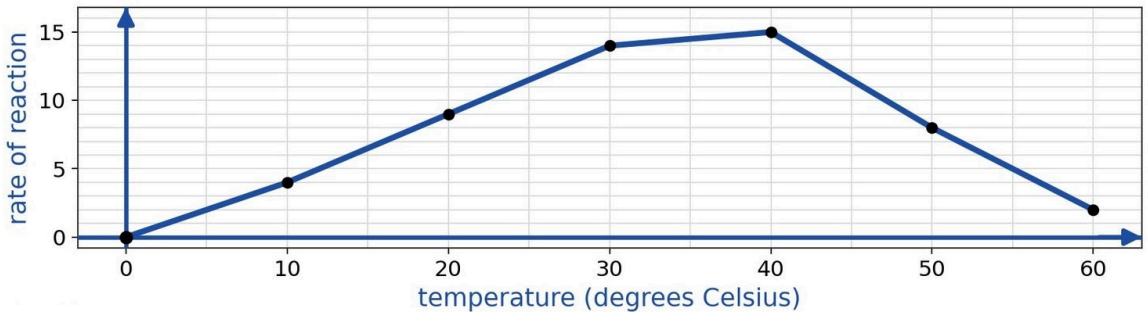
12 **The graph shows the rate of an enzyme reaction at different temperatures. At which temperature is the rate highest?**



A 30

B 60

C 20

D 40

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13 **What is plasmolysis?**

A a plant cell bursting in water

B a root hair cell absorbing minerals

C a plant cell shrinking

D a cell dividing into two cells

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14 **Which part of a plant cell gives the cell strength and support?**

A the chloroplast

B the cell wall

C the vacuole

D the cell membrane

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15 **A food contains 100 kJ of energy per 100 g. How much energy is in 200 g of the food?**

- A 200 kJ
- B 400 kJ
- C 250 kJ
- D 150 kJ

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

- A energy stored as fat
- B energy from food
- C energy used in exercise
- D energy used at rest

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

A iodine turns blue-black

B Sudan III turns red

C Biuret turns purple

D Benedict's turns orange

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18 **Potatoes left in salty water go soft. Why?**

A water enters the cells

B salt enters the cells

C the cells divide

D water leaves the cells

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19 **What is glucose converted into for storage in animals?**

A cellulose

B starch

C fatty acids

D glycogen

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

A glycerol

B fatty acids

C amino acids

D sugars

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21 **A piece of potato weighs 5 g. After soaking in pure water it weighs 5.5 g. What is the percentage increase in mass?**

A 15%

B 10%

C 20%

D 5%

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22 **How should a biological drawing of a cell be made?**

A in pencil, with ruled label lines

B in pencil, with the labels coloured in

C in pen, with no labels at all

D in pen, with the labels written inside the drawing

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

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

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24 **Hens' eggs have a large yolk. The yolk is one very large cell. Which part of the cell is the yolk?**

- A the mitochondria
- B the cell membrane, controlling what enters
- C the nucleus
- D the cytoplasm with stored food

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25

A cell is 30 mm long in a photograph. Its real length is 0.15 mm. What is the magnification?

A × 400

B × 100

C × 300

D × 200

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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