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

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

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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 Biuret turns purple
- D Benedict's turns brick red

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

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

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

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

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

A to absorb light for photosynthesis

B to control the cell

C to release energy in respiration from glucose

D to store water as cell sap

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6 **Potatoes are plant storage organs. What do they store?**

A starch

B protein

C cellulose

D glucose

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

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

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8 **What is the word equation for aerobic respiration?**

- A glucose gives ethanol plus carbon dioxide
- B glucose gives lactic acid
- C glucose plus carbon dioxide gives oxygen plus water
- D glucose plus oxygen gives carbon dioxide plus water

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9 **Red apples provide energy. Which nutrient in apples provides most energy?**

- A fat, for insulation
- B protein, for growth
- C fibre, for digestion
- D carbohydrates

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10 **A cell is 15 mm long in a photograph. Its real length is 0.04 mm. What is the magnification?**

- A × 475
- B × 375
- C × 750
- D × 187

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11 **Which type of respiration releases the most energy per glucose molecule?**

A aerobic respiration

B anaerobic respiration

C fermentation

D photosynthesis

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12 **What happens to an animal cell placed in pure water?**

A it swells and bursts

B it becomes turgid and firm

C it stays the same size

D it shrinks as water leaves it

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

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

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14 **A cell of real length 0.02 mm is viewed at a magnification of 200 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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15 **Where are villi found?**

A the small intestine

B the stomach

C the large intestine

D the mouth

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16 **Why does breathing rate increase during exercise?**

A to take in more carbon dioxide

B to slow the heart

C to cool the blood

D to take in more oxygen

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

A a nucleus

B a ribosome

C a plasmid

D a mitochondrion

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18 **Which part of a plant cell absorbs light energy for photosynthesis?**

A the nucleus

B the ribosome

C the mitochondria

D the chloroplast

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19 **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 100 cm^3

D 40 cm^3

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20 **Which part of a light microscope holds the slide?**

A the mirror

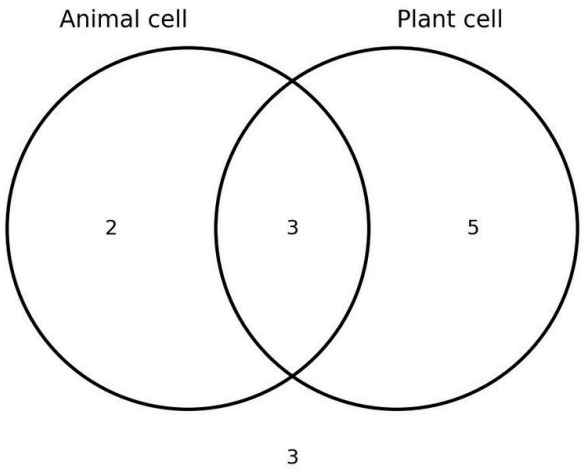
B the stage

C the objective lens

D the eyepiece

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



A 3

B 5

C 2

D 4

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

A in pencil, with ruled label lines

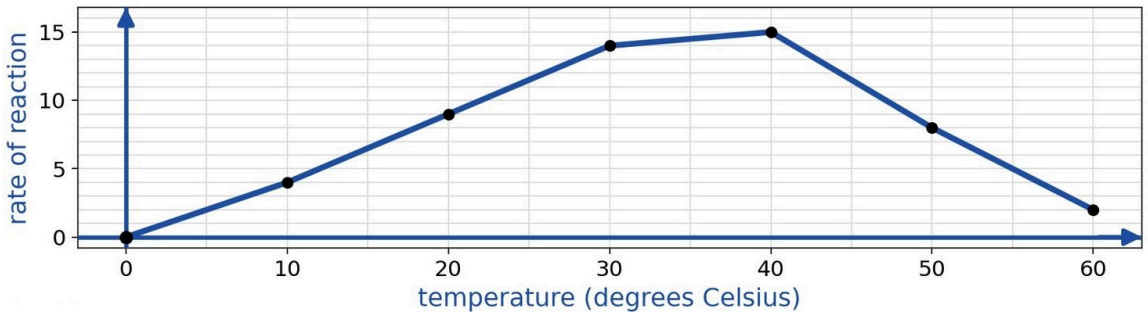
B in pen, with the labels written inside the drawing

C in pencil, with the labels coloured in

D in pen, with no labels at all

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



A 60

B 30

C 20

D 40

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24 **What happens to excess amino acids in the body?**

A they are turned into glucose

B they are breathed out

C they are stored as glycogen

D they become urea

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25 **A food contains 200 kJ of energy per 100 g. How much energy is in 300 g of the food?**

A 550 kJ

B 600 kJ

C 1200 kJ

D 650 kJ

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ANSWER KEY

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

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