ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 1 · 25 QUESTIONS

Cell 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 mitochondria
- D the nucleus

Understand It with Pulse | Flag a mistake

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

- A water enters the cells
- B water leaves the cells
- C salt enters the cells
- D the cells divide

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **Glass marbles are used to model atoms. What is a limitation of the model?**

- A marbles cannot be counted accurately at all
- B marbles are too small to see properly
- C marbles are much bigger than atoms
- D marbles are the wrong colour for atoms

Understand It with Pulse | Flag a mistake

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

A to absorb light for photosynthesis

B to release energy in respiration from glucose

C to store water as cell sap

D to control the cell

Understand It with Pulse | Flag a mistake

6 **A peach contains a stone. What is inside the stone?**

A a root

B a flower

C a leaf

D a seed

Understand It with Pulse | Flag a mistake

7 **A plant cell in pure water becomes turgid. What does turgid mean?**

A empty and flat

B dead and dry

C shrunken and soft

D swollen and firm

Understand It with Pulse | Flag a mistake

8 **Why does oxygen diffuse from the lungs into the blood?**

A oxygen is more concentrated in the lungs

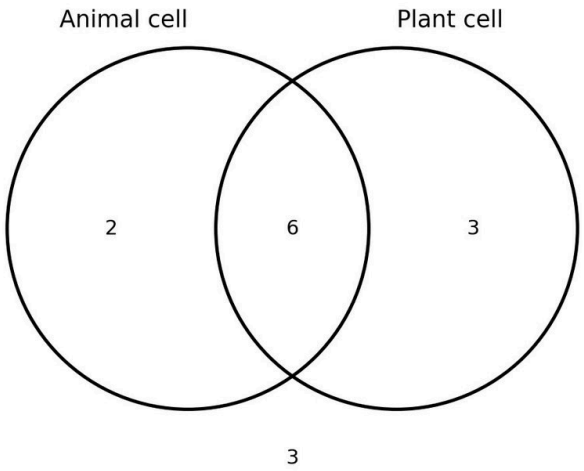
B the blood pumps it in

C the lungs are warmer

D oxygen is less concentrated in the lungs

Understand It with Pulse | Flag a mistake

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



A 5

B 7

C 6

D 8

Understand It with Pulse

Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

11 **A cell is 12 mm long in a photograph. Its real length is 0.03 mm. What is the magnification?**

- **A** × 400
- **B** × 800
- **C** × 200
- **D** × 500

Understand It with Pulse | Flag a mistake

12 **A cell is 36 mm long in a photograph. Its real length is 60 micrometres. What is the magnification?**

- A × 1200
- B × 600
- C × 6000
- D × 60

Understand It with Pulse | Flag a mistake

13 **What is a risk of using stem cells from another person?**

- A they cannot divide
- B they stop the heart
- C they turn into cancer at once
- D the body may reject them

Understand It with Pulse | Flag a mistake

14 **Which part of a cell is where most of the chemical reactions happen?**

A the ribosome

B the nucleus

C the cell membrane

D the cytoplasm

Understand It with Pulse | Flag a mistake

15 **A piece of potato weighs 4 g. After soaking in pure water it weighs 4.6 g. What is the percentage increase in mass?**

A 30%

B 15%

C 7.5%

D 20%

Understand It with Pulse | Flag a mistake

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

A the objective lens

B the eyepiece

C the stage

D the mirror

Understand It with Pulse | Flag a mistake

17 **During mitosis, how many daughter cells are produced from one cell?**

A 2

B 1

C 4

D 3

Understand It with Pulse | Flag a mistake

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

A hot to cold water

B cell to soil

C dilute to concentrated solution

D concentrated to dilute solution

Understand It with Pulse | Flag a mistake

19 **Which of these uses active transport?**

A taking in minerals from soil

B water entering a root

C oxygen entering the lungs

D carbon dioxide leaving a leaf

Understand It with Pulse | Flag a mistake

20 **Which of these is found in a plant cell but not in an animal cell?**

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

Understand It with Pulse | Flag a mistake

21 **A cell is 30 mm long in a photograph. Its real length is 0.2 mm. What is the magnification?**

- A × 75
- B × 250
- C × 150
- D × 300

Understand It with Pulse | Flag a mistake

22 **A cell is 12 mm long in a photograph. Its real length is 60 micrometres. What is the magnification?**

- A × 200
- B × 2000
- C × 20
- D × 400

Understand It with Pulse | Flag a mistake

23 **Before a cell divides by mitosis, what happens to its chromosomes?**

- A they leave the cell
- B they are destroyed
- C they are copied
- D they are halved

Understand It with Pulse | Flag a mistake

24 **Which cell contains chloroplasts?**

- A a red blood cell
- B a leaf cell
- C a muscle cell
- D a nerve cell

Understand It with Pulse | Flag a mistake

25 **A cell is 18 mm long in a photograph. Its real length is 0.06 mm. What is the magnification?**

- A × 600
- B × 300
- C × 400
- D × 150

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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