ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · 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 **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 below normal
- D above normal

Understand It with Pulse | Flag a mistake

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

- A starch
- B glucose
- C cellulose
- D protein

Understand It with Pulse | Flag a mistake

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

A marbles are much bigger than atoms

B marbles are too small to see properly

C marbles are the wrong colour for atoms

D marbles cannot be counted accurately at all

Understand It with Pulse | Flag a mistake

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

A the nucleus

B the cell membrane, controlling what enters

C the cytoplasm with stored food

D the mitochondria

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 store water as cell sap

C to release energy in respiration from glucose

D to control the cell

Understand It with Pulse | Flag a mistake

6 **A peach tree flowers in spring. What do bees carry between flowers?**

A leaves

B pollen

C seeds

D water

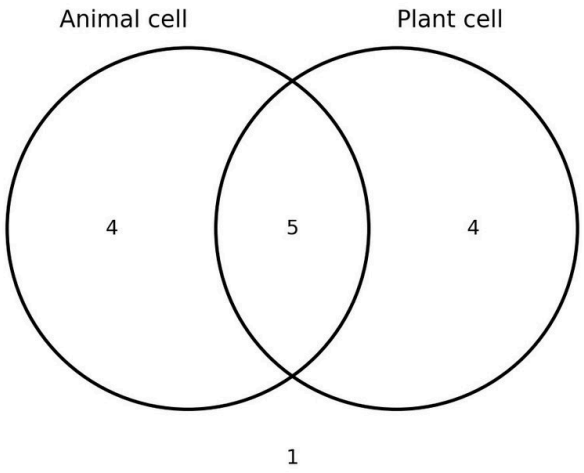
Understand It with Pulse | Flag a mistake

7 **A piece of potato weighs 10 g. After soaking in pure water it weighs 10.6 g. What is the percentage increase in mass?**

- A 12%
- B 11%
- C 3%
- D 6%

Understand It with Pulse | Flag a mistake

8 **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 4

D 6

Understand It with Pulse | Flag a mistake

9 **A microscope has an eyepiece lens of 10 times and an objective lens of 40 times. What is the total magnification?**

- A × 400
- B × 50
- C × 40
- D × 4000

Understand It with Pulse | Flag a mistake

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

- A 1
- B 2
- C 3
- D 4

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

12 **A cell is 12 mm long in a photograph. Its real length is 0.02 mm. What is the magnification?**

- A × 700
- B × 300
- C × 600
- D × 1200

Understand It with Pulse | Flag a mistake

13 **A cell of real length 0.04 mm is viewed at a magnification of 400 times. How long is the image of the cell?**

- A 21 mm
- B 8 mm
- C 16 mm
- D 32 mm

Understand It with Pulse | Flag a mistake

14 **Which part of a cell controls all the activities of the cell?**

- A the cell membrane
- B the vacuole
- C the cytoplasm
- D the nucleus

Understand It with Pulse | Flag a mistake

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

- **A** empty and flat
- **B** shrunken and soft
- **C** swollen and firm
- **D** dead and dry

Understand It with Pulse | Flag a mistake

16 **A piece of potato weighs 8 g. After soaking in pure water it weighs 8.6 g. What is the percentage increase in mass?**

- **A** 12.5%
- **B** 3.75%
- **C** 7.5%
- **D** 15%

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

18 **Which cell contains chloroplasts?**

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

Understand It with Pulse | Flag a mistake

19 **A cell is 18 mm long in a photograph. Its real length is 0.15 mm. What is the magnification?**

- **A** × 220
- **B** × 60
- **C** × 120
- **D** × 240

Understand It with Pulse | Flag a mistake

20 **A cell of real length 0.04 mm is viewed at a magnification of 200 times. How long is the image of the cell?**

- **A** 16 mm
- **B** 4 mm
- **C** 13 mm
- **D** 8 mm

Understand It with Pulse | Flag a mistake

21 **Which part of a cell makes proteins?**

A the vacuole

B the mitochondria

C the ribosome

D the nucleus

Understand It with Pulse | Flag a mistake

22 **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 10%

B 5%

C 20%

D 15%

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **A cell is 12 mm long in a photograph. Its real length is 0.04 mm. What is the magnification?**

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

Understand It with Pulse | Flag a mistake

25

A cell of real length 0.05 mm is viewed at a magnification of 400 times. How long is the image of the cell?

A 10 mm

B 40 mm

C 25 mm

D 20 mm

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.