ENGLAND GCSE BIOLOGY AQA HIGHER · UNIT 1 · 10 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 **Glass marbles are used to model atoms. What is a limitation of the model?**

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

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

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

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3 **What is plasmolysis?**

A a plant cell bursting in water

B a cell dividing into two cells

C a plant cell shrinking

D a root hair cell absorbing minerals

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

A the vacuole

B the cell membrane

C the chloroplast

D the cell wall

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5 **A piece of potato weighs 10 g. After soaking in pure water it weighs 10.8 g. What is the percentage increase in mass?**

- A 8%
- B 4%
- C 16%
- D 13%

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6 **A single bacterium divides every 20 minutes. How many bacteria are there after 3 divisions?**

- A 10
- B 4
- C 8
- D 16

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7 **Which of these is found in both animal cells and plant cells?**

- A a mitochondrion
- B a cell wall
- C a large vacuole
- D a chloroplast

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8 **A cell is 20 mm long in a photograph. Its real length is 0.05 mm. What is the magnification?**

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

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9 **Why are cultures grown near a Bunsen burner flame?**

- A the flame dries the agar
- B the flame warms the bacteria so they grow faster
- C the flame lights the bench
- D rising air keeps microbes away

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

- A in pen, with the labels written inside the drawing
- B in pen, with no labels at all
- C in pencil, with the labels coloured in
- D in pencil, with ruled label lines

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ANSWER KEY

1. C
2. B
3. C
4. D
5. A
6. C
7. A
8. B
9. D
10. D

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