ENGLAND GCSE BIOLOGY AQA FOUNDATION · 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 **Potatoes are plant storage organs. What do they store?**

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

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2 **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 cannot be counted accurately at all
- D marbles are the wrong colour for atoms

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3 **A cell is 12 mm long in a photograph. Its real length is 0.05 mm. What is the magnification?**

- A × 340
- B × 240
- C × 120
- D × 480

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4 **What is a meristem?**

- A a plant hormone that stops growth
- B the part of a leaf that catches light
- C a type of root hair cell
- D plant tissue that makes new cells

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

- A oxygen entering the lungs
- B taking in minerals from soil
- C carbon dioxide leaving a leaf
- D water entering a root

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6 **In which part of the cell cycle does the DNA copy itself?**

- A before mitosis starts
- B when the cell dies
- C during cell division only
- D after the cell splits

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

A a ribosome

B a mitochondrion

C a chloroplast

D a nucleus

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8 **In the microscopy required practical, why is iodine stain added to onion cells?**

A to magnify the cells

B to kill the onion cells

C to keep the cells alive for longer

D to make the nucleus easy to see

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9 **A piece of potato weighs 4 g. After soaking in pure water it weighs 4.4 g. What is the percentage increase in mass?**

- A 20%
- B 10%
- C 5%
- D 15%

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10 **Why are school cultures incubated at 25 degrees Celsius, not 37 degrees Celsius?**

- A to make the bacteria grow more slowly for counting
- B to avoid growing microbes that harm humans
- C to stop the agar from melting
- D to save electricity in the laboratory

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ANSWER KEY

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

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