ENGLAND GCSE BIOLOGY OCR GATEWAY HIGHER · UNIT 1 · 10 QUESTIONS

Cell Level Systems — 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 in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles vibrate in fixed positions
- B particles are far apart from each other
- C particles flow past each other easily
- D particles move freely through space

Understand It with Pulse | Flag a mistake

2 **A sunflower is left in bright light. Its leaves photosynthesise faster than in dim light. What else would increase the rate?**

- A less water in the soil
- B more carbon dioxide in the air
- C less chlorophyll in the leaves of the plant
- D a lower temperature

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3 **A piece of potato weighs 8 g. After soaking in pure water it weighs 9 g. What is the percentage increase in mass?**

- A 25%
- B 12.5%
- C 17.5%
- D 6.25%

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

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

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5 **Which cell contains chloroplasts?**

A a nerve cell

B a muscle cell

C a leaf cell

D a red blood cell

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

A the stigma

B the anther

C the ovary

D the petal

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7 **A cell is 18 mm long in a photograph. Its real length is 20 micrometres. What is the magnification?**

- A × 900
- B × 9000
- C × 90
- D × 1800

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

- A to take in more carbon dioxide
- B to cool the blood
- C to slow the heart
- D to take in more oxygen

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9 **A pondweed plant releases 12 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

- A 12
- B 7
- C 6
- D 5

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10 **A person breathes 15 times per minute. How many breaths is that in one hour?**

- A 840
- B 960
- C 900
- D 1800

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ANSWER KEY

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

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