ENGLAND GCSE BIOLOGY OCR GATEWAY FOUNDATION · 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 **Potatoes are placed in pure water. What happens to the potato cells?**

- A they stay the same
- B they lose water
- C they burst
- D they gain water

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

- A to absorb light for photosynthesis
- B to control the cell
- C to store water as cell sap
- D to release energy in respiration from glucose

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3 **A pondweed plant releases 12 bubbles of oxygen in 6 minutes. How many bubbles does it release per minute?**

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

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4 **Where does aerobic respiration happen?**

- A in the chloroplasts
- B in the mitochondria
- C in the vacuole
- D in the nucleus

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5 **How can a grower increase crop yield in a greenhouse?**

A by watering less often

B by keeping the greenhouse dark

C by cooling the greenhouse down

D by adding carbon dioxide

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6 **Why are embryonic stem cells useful in medicine?**

A they carry no DNA at all

B they can become any cell type

C they divide only once and then stop

D they are already specialised

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7 **One glucose molecule releases 30 molecules of ATP in respiration. How many ATP molecules are released from 10 glucose molecules?**

- A 600
- B 300
- C 330
- D 270

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8 **Why must a Petri dish be sealed with tape after inoculation?**

- A to stop the agar from setting
- B to keep the dish warm overnight
- C to keep the light out
- D to stop microbes escaping

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

- A 32
- B 64
- C 128
- D 66

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10 **A cell image is 12 mm long and the magnification is 400 times. What is the real length of the cell?**

- A 0.3 mm
- B 0.03 mm
- C 3 mm
- D 4800 mm

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ANSWER KEY

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

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