ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 1 · 10 QUESTIONS

Key Concepts in 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 placed in pure water. What happens to the potato cells?**

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

Understand It with Pulse | Flag a mistake

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

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

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3 **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 3 mm
- C 0.03 mm
- D 4800 mm

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4 **Why does active transport need energy?**

- A it only works in the dark
- B it moves substances down a gradient
- C it needs light to work
- D it works against a gradient

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5 **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

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6 **An enzyme reaction is fastest at 30 degrees Celsius. At 50 degrees Celsius the rate is much lower. Why?**

- A the enzyme works faster
- B the enzyme is digested
- C the substrate runs out
- D the enzyme is denatured

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7 **One glucose molecule releases 30 molecules of ATP in respiration. How many ATP molecules are released from 3 glucose molecules?**

- A 180
- B 60
- C 90
- D 120

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8 **A piece of potato weighs 6 g. After soaking in pure water it weighs 7 g. What is the percentage increase in mass?**

- A 21.7%
- B 33.4%
- C 8.35%
- D 16.7%

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9 **A cell of real length 0.02 mm is viewed at a magnification of 200 times. How long is the image of the cell?**

- **A** 2 mm
- **B** 9 mm
- **C** 8 mm
- **D** 4 mm

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10 **A cell is 20 mm long in a photograph. Its real length is 0.02 mm. What is the magnification?**

- **A** × 2000
- **B** × 1000
- **C** × 1100
- **D** × 500

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ANSWER KEY

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

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