ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 4 · 10 QUESTIONS

Bioenergetics — 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 **Red apples are cut and left in air. Why do they turn brown?**

- A they freeze in the cold
- B they ferment into alcohol
- C they dry out in the air
- D enzymes react with oxygen

Understand It with Pulse | Flag a mistake

2 **A school lunch tray holds a meal. Why do we need food?**

- A to feel full after eating
- B to stay awake at night
- C for energy and growth
- D for fun only, not for health

Understand It with Pulse | Flag a mistake

3 **A forest is cut down. What happens to the carbon stored in the trees?**

- A it is released
- B it turns to oxygen
- C it disappears
- D it is stored forever

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4 **A cheese pizza is cooked in an oven. How is energy transferred in the oven?**

- A by conduction only, through the tray
- B by evaporation from the cheese
- C by condensation on the oven walls
- D by radiation and convection

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5 **A person breathes 12 times per minute. How many breaths is that in one hour?**

- A 720
- B 1440
- C 660
- D 780

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6 **A sandwich provides energy. Which process releases energy from food in cells?**

- A respiration
- B photosynthesis
- C digestion
- D fermentation

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7 **Photosynthesis produces oxygen at a rate of 5 cm cubed per minute. How much oxygen is produced in 20 minutes?**

- A 110 cm^3
- B 90 cm^3
- C 200 cm^3
- D 100 cm^3

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8 **A food contains 200 kJ of energy per 100 g. How much energy is in 200 g of the food?**

- A 450 kJ
- B 350 kJ
- C 400 kJ
- D 800 kJ

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9 **What is glucose made into for storage in a plant?**

A starch

B cellulose

C protein

D chlorophyll

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10 **A food contains 150 kJ of energy per 100 g. How much energy is in 200 g of the food?**

A 300 kJ

B 600 kJ

C 250 kJ

D 350 kJ

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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