ENGLAND GCSE BIOLOGY AQA HIGHER · 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 **A forest provides a habitat. What does habitat mean?**

- A when an organism sleeps
- B what an organism eats
- C how an organism breeds
- D where an organism lives

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2 **A school lunch tray holds a meal with bread, cheese and an apple. Which food group is the bread from?**

- A carbohydrates
- B fats, for insulation
- C vitamins, for health
- D proteins, for growth

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

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

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4 **How is lactic acid removed after exercise?**

- A it is carried to the liver
- B it is stored in the muscles
- C it is breathed out through the lungs
- D it is passed out in urine at once

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5 **What do plants need nitrate ions for?**

A to make cellulose

B to make amino acids

C to make chlorophyll

D to make glucose in the leaves

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6 **A sandwich contains bread and cheese. Where does digestion begin?**

A in the small intestine

B in the mouth

C in the stomach

D in the large intestine

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7 **Where in a leaf does photosynthesis happen?**

A in the vacuole

B in the nucleus

C in the mitochondria

D in the chloroplasts

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8 **Photosynthesis produces oxygen at a rate of 5 cm cubed per minute. How much oxygen is produced in 10 minutes?**

A 100 cm^3

B 40 cm^3

C 60 cm^3

D 50 cm^3

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9 **What happens to lactic acid after exercise?**

A it is breathed out

B it stays in the muscles forever

C it turns into glucose at once

D it is broken down using oxygen

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

A 350 kJ

B 450 kJ

C 800 kJ

D 400 kJ

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ANSWER KEY

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

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