ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY HIGHER · UNIT 2 · 10 QUESTIONS

Sustainable Energy — 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 to let Brett know so he can fix it.

1 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it rises above room temperature
- B it stays the same all day
- C it falls to zero degrees
- D it falls to room temperature

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2 **A sunflower grows taller over the summer. Where does most of the extra mass come from?**

- A water absorbed from the soil
- B sunlight captured by the leaves
- C minerals absorbed from the soil
- D carbon dioxide from the air

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3 **A device transfers 200 J of energy in 20 seconds. What is its power?**

- A 4000 W
- B 10 W
- C 5 W
- D 20 W

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4 **What is biofuel made from?**

- A sunlight
- B rocks and minerals from the ground
- C plants or animal waste
- D sea water

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5 **A bicycle has brakes. What do the brakes do to kinetic energy?**

- A transfer it to heat
- B store it
- C turn it into light and sound
- D destroy it

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6 **A 5 kg object is lifted 2 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

- A 10 J
- B 100 J
- C 200 J
- D 50 J

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7 **Why do some people object to wind turbines?**

A they spoil the view

B they produce carbon dioxide

C they use up the wind

D they only work at night

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8 **A 10 kg object moves at 2 m/s. What is its kinetic energy?**

A 10 J

B 20 J

C 40 J

D 30 J

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9 **What is the unit of energy?**

A the volt

B the watt

C the newton

D the joule

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10 **A force of 10 N pushes a box 2 m along the ground. How much work is done?**

A 40 J

B 10 J

C 50 J

D 20 J

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ANSWER KEY

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

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