ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 14 · 5 QUESTIONS

Particle Model — 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 hot. How is energy transferred to the air?**

- A by conduction and convection
- B by condensation on the cold cup
- C by radiation only, from the surface
- D by evaporation only, from the top

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2 **An object has a mass of 20 g and a volume of 20 cubic centimetres. What is its density?**

- A 0.5 g/cm³
- B 1 g/cm³
- C 40 g/cm³
- D 2 g/cm³

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3 **A 4 kg mass of ice melts. The specific latent heat of fusion of ice is 400 J/kg. How much energy is needed?**

- A 1700 J
- B 1600 J
- C 3200 J
- D 800 J

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4 **A hot air balloon cools down. What happens?**

- A it bursts
- B it rises faster
- C it stays still
- D it sinks

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5 **How much energy is needed to change 5 kg of a substance from liquid to gas, if the specific latent heat is 2260000 J per kg?**

A 11300000 J

B 2260005 J

C 5650000 J

D 22600000 J

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ANSWER KEY

1. A
2. B
3. B
4. D
5. A

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