CALIFORNIA CHEMISTRY · UNIT 4 · 5 QUESTIONS

Energy, Equilibrium, and Nuclear Processes — Practice Test

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1 **A combustion reaction is normally**

- A Nuclear
- B Endothermic
- C Exothermic
- D At equilibrium only

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2 **The specific heat capacity of a substance is the energy needed to raise the temperature of**

A 1 mol by 100 degrees Celsius

B 1 L by 1 degree Celsius

C 1 kg to boiling point

D 1 g by 1 degree Celsius

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3 **Weathered wooden fish cannery building on stilts over calm water in Alaska, grey wooden walls and a rusted metal roof, fishing dock beside it. In a calorimetry experiment, heat lost by a hot metal is assumed to equal heat gained by the water, because energy is**



A Destroyed

B Conserved

C Doubled

D Created

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4 **A reaction with a negative enthalpy change and an increase in entropy is favoured at**

- A High temperatures only
- B Low temperatures only
- C No temperature
- D All temperatures

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5 **Removing a product from an equilibrium mixture shifts the equilibrium toward the**

- A Solvent
- B Products
- C Catalyst
- D Reactants

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ANSWER KEY

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

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