THERMOCHEMISTRY - PRACTICE TEST | NEW BRUNSWICK CHEMISTRY 121-122 · UNIT A · 10 QUESTIONS

Thermochemistry — 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 **Two Hess steps have enthalpy changes of -200 and 75 kilojoules. The total in kilojoules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A reaction absorbs 250 kilojoules per mole. For 4 moles the total absorbed in kilojoules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An endothermic reaction absorbs energy from the**

- **A** surroundings
- **B** products only
- **C** catalyst
- **D** reactants only

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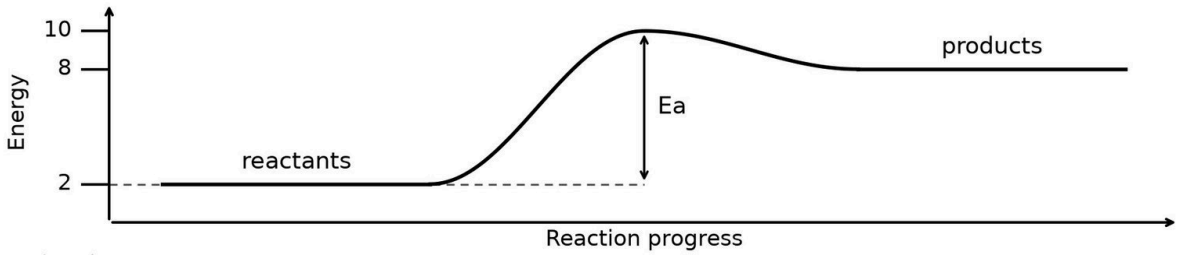
4 **The diagram shows products higher than reactants. The reaction is**



- **A** exothermic
- **B** endothermic
- **C** at equilibrium
- **D** neutral

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5 **Specific heat capacity is the heat needed to raise one gram by**

A one mole

B one litre

C one degree Celsius

D one atmosphere

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6 **A bomb calorimeter measures heat at constant**

A pressure

B temperature

C mass

D volume

Understand It with Pulse | Flag a mistake

7 **The enthalpy change for a reverse reaction has the**

A opposite sign

B same sign

C double value

D zero value

Understand It with Pulse | Flag a mistake

8 **Combustion of methane is an example of an**

A endothermic reaction

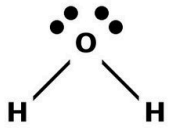
B exothermic reaction

C equilibrium reaction

D neutralisation only

Understand It with Pulse | Flag a mistake

9 **The Lewis diagram shows water with two lone pairs on oxygen. The shape is**



- **A** linear
- **B** tetrahedral
- **C** bent
- **D** trigonal planar

Understand It with Pulse | Flag a mistake

10 **Calorimetry assumes no heat is lost to the**

- **A** water
- **B** reactants
- **C** products
- **D** surroundings

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	-125	**5.**	C	**9.**	C
2.	1000	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	B	**8.**	B		

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