ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · UNIT 11 · 5 QUESTIONS

Monitoring and Controlling Chemical Reactions — Practice Test

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1 **A sandwich is eaten. Which enzyme digests the starch in the bread?**

- A pepsin
- B lipase
- C protease
- D amylase

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2 **In a reaction, the energy needed to break bonds is 1000 kJ and the energy released making bonds is 600 kJ. Is the reaction exothermic or endothermic?**

- A endothermic, more energy is taken in
- B endothermic, more energy is given out
- C exothermic, more energy is taken in
- D exothermic, more energy is given out

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3 **A solution has a concentration of 2 mol per cubic decimetre. How many moles are in 2 cubic decimetres of the solution?**

- A 8 mol
- B 5 mol
- C 3 mol
- D 4 mol

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4 **In the combustion of methane, the energy needed to break the bonds is 800 kJ and the energy released when new bonds form is 1000 kJ. What is the overall energy change?**

A -800 kJ

B -200 kJ

C 200 kJ

D 1000 kJ

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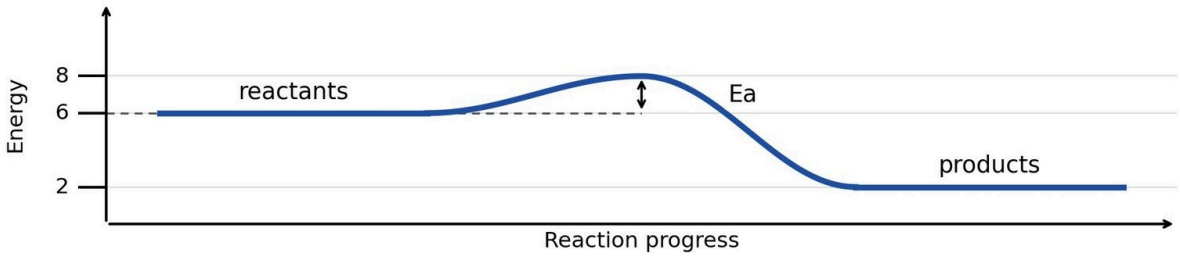
5 **The diagram shows the energy profile for a reaction. The reactants are at energy 6 and the products are at 2. Is the reaction exothermic or endothermic?**



- **A** exothermic, energy is taken in
- **B** endothermic, energy is given out
- **C** exothermic, energy is given out
- **D** endothermic, energy is taken in

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ANSWER KEY

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

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