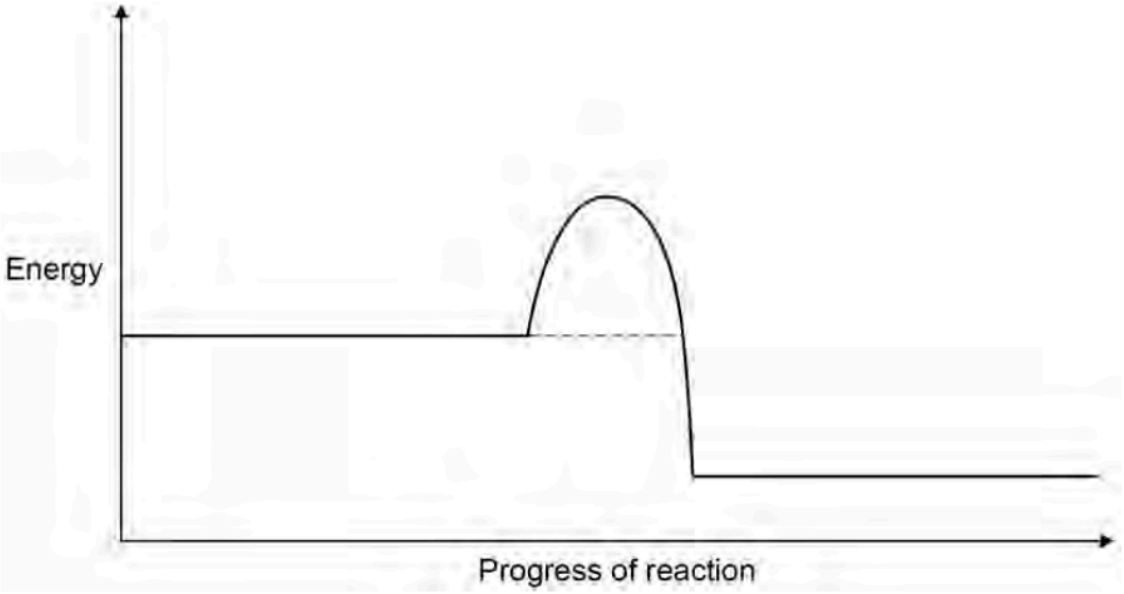
## ( Collision theory and activation energy )

Q1. a). ( 2024 )

**Figure 2** represents the reaction profile of the catalysed reaction between ammonia and oxygen.

**Figure 2**




Complete the reaction profile for the catalysed reaction in **Figure 2**.

You should:

- label the activation energy
- label the reactants and products, using the names of the reactants and products.

**[2 marks]**

Q1. b). ( 2024 )

How would **Figure 2** be different if **no** catalyst was used?

**[1 mark]**

Tick (✓) **one** box.

The final energy level would be higher. ☐

The final energy level would be lower. ☐

The line would reach a higher peak. ☐

The line would reach a lower peak. ☐