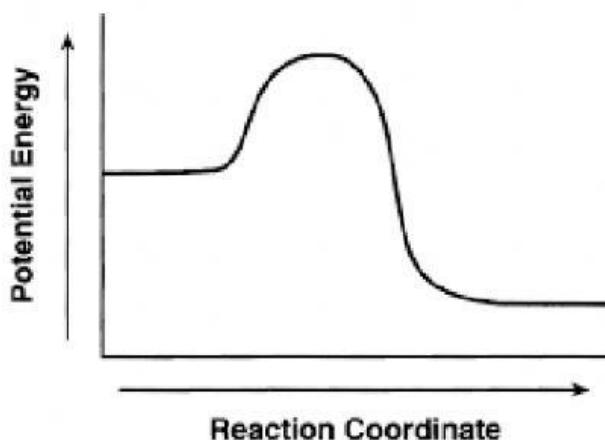


Q1 : Classify the following statements to endothermic reactions or exothermic reactions .

- a. The reaction absorbs heat .
- b. The amount of enthalpy change is – 140 Kj
- c. $\text{H}_2 + \text{N}_2 \rightarrow \text{NH}_3 + 500\text{Kj}$
- d. The energy of reactants is larger than the energy of the products .

Q2: study the following graphs and answer the questions .



- A. Label the previous graph .
- B. Which type of reaction does it represent it . explain your answer .
- C. Does it release or absorb energy ?

Q3 : hydrogen gas reacts with Oxygen gas to produce water and 70 Kj of heat , write the equation of the chemical reaction