

Question 16 (Answer: **C**)

- A reaction that goes vigorously at room temperature must have a *low* activation energy.
- Bond *making* always releases energy, so it is exothermic, never endothermic.
- A positive ΔH means breaking the old bonds took more energy than making the new ones released.

Question 27 (Answer: **C**)

- Heating a metal carbonate strongly breaks it down into the metal oxide and carbon dioxide.
- Calcium oxide is the white solid.
- Carbon dioxide is the colourless gas.

Question 18 (Answer: **B**)

- A physical change alters the state but not the substance itself.
- Evaporating ethanol gives ethanol vapour – still ethanol.
- Cracking, fermenting and neutralising all produce new substances.