- 2. For which of the following reactions, ΔH is equal to ΔU ? (Mains, 2018)
- A) $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$
- B) $2HI(g) \rightarrow H_2(g) + I_2(g)$
- C) $2NO_2(g) \rightarrow N_2O_4(g)$
- $D) 2SO_2(g) + O_2(g) \rightarrow 2SO_3(g)$

Ans: B)

Explanation:

Both in the reactants and products side number of moles of gas molecules =2. So, $\Delta n_g \!\!=\!\! 0$