

Question 1

When an ideal gas undergoes unrestrained expansion, no cooling occurs because the molecules : *(1984 - 1 Mark)*

- (a) are above the inversion temperature
 - (b) exert no attractive forces on each other
 - (c) do work equal to loss in kinetic energy
 - (d) collide without loss of energy
- (b)** No work is required to tear apart the molecules due to the absence of attractive forces in an ideal gas.