

A-LEVEL PHYSICS

Practice Paper 2

MARK SCHEME

Maximum marks: 85

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Section A

- | | | | | |
|---|-----|------|---|---|
| 1 | (a) | (i) | <p>Heating result in increased pressure because of:</p> <p>more collisions (of molecules) with wall per second</p> <p>OR more frequent collisions of molecules with walls ✓</p> <p>greater momentum change (of molecules)per collision ✓</p> | 2 |
| | | (ii) | <p>(Heating results in) faster molecules so more momentum change per collision ✓</p> <p>(To maintain same pressure) volume increases to reduce the number of collisions per second ✓</p> | 2 |
| | (b) | (i) | $V = \left(\frac{nRT}{p} \right) = \frac{0.250 \times 8.31 \times 300}{1.05 \times 10^5} \checkmark$ <p>$5.9(4) \times 10^{-3} \text{ m}^3 \checkmark$</p> | 2 |
| | | (ii) | $T_2 = \left(\frac{T_1 V_2 p_2}{p_1 V_1} \right) = \frac{300 \times 7.0 \times 10^6}{1.05 \times 10^5 \times 20}$ $\left[\text{or } T_2 = \left(\frac{p_2 V_2}{nR} \right) = \frac{7.0 \times 10^6 \times 5.94 \times 10^{-3}}{8.31 \times 0.25 \times 20} \right] \checkmark$ <p>$= 1.0 \times 10^3 \text{ K (1000 K)} \checkmark$</p> | 2 |
- (Total 8 marks)

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CL Gary



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