



A-LEVEL PHYSICS

MARK SCHEME

Practice Paper 2

Maximum marks: 85

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Section A

1 (a) (i) Heating result in increased pressure because of: 2
more collisions (of molecules) with wall per second

OR more frequent collisions of molecules with walls ✓

greater momentum change (of molecules)per collision √
(Heating results in) faster molecules so more momentum change 2

(ii) (Heating results in) faster molecules so more momentum change per collision √
 (To maintain same pressure) volume increases to reduce the number

(To maintain same pressure) volume increases to reduce the number of collisions per second √

(b) (i) $V = \left(\frac{nRT}{p}\right) = \frac{0.250 \times 8.31 \times 300}{1.05 \times 10^5} \checkmark$ 2

5.9(4) × 10⁻³ m³ √

(ii) $T_2 = \left(\frac{T_1 V_2 P_2}{p_1 V_1}\right) = \frac{300 \times 7.0 \times 10^6}{1.05 \times 10^5 \times 20}$

$$\left[or \, T_2 = \left(\frac{p_2 V_2}{nR} \right) = \frac{7.0 \times 10^6 \times 5.94 \times 10^{-3}}{8.31 \times 0.25 \times 20} \right]_{\checkmark}$$

(Total 8 marks)

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Whispering the Strategies of Language: An Mental Journey through Hsc Physics Exam 20paper 2 Mark Scheme

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