

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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Léo Pomar



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Table of Contents Hsc Physics Exam 20paper 2 Mark Scheme

1. Understanding the eBook Hsc Physics Exam 20paper 2 Mark Scheme
 - The Rise of Digital Reading Hsc Physics Exam 20paper 2 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics Exam 20paper 2 Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Physics Exam 20paper 2 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics Exam 20paper 2 Mark Scheme
 - Personalized Recommendations
 - Hsc Physics Exam 20paper 2 Mark Scheme User Reviews and Ratings
 - Hsc Physics Exam 20paper 2 Mark Scheme and Bestseller Lists
5. Accessing Hsc Physics Exam 20paper 2 Mark Scheme Free and Paid eBooks
 - Hsc Physics Exam 20paper 2 Mark Scheme Public Domain eBooks
 - Hsc Physics Exam 20paper 2 Mark Scheme eBook Subscription Services
 - Hsc Physics Exam 20paper 2 Mark Scheme Budget-Friendly Options

6. Navigating Hsc Physics Exam 20paper 2 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Physics Exam 20paper 2 Mark Scheme Compatibility with Devices
 - Hsc Physics Exam 20paper 2 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Physics Exam 20paper 2 Mark Scheme
 - Highlighting and Note-Taking Hsc Physics Exam 20paper 2 Mark Scheme
 - Interactive Elements Hsc Physics Exam 20paper 2 Mark Scheme
8. Staying Engaged with Hsc Physics Exam 20paper 2 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Physics Exam 20paper 2 Mark Scheme
9. Balancing eBooks and Physical Books Hsc Physics Exam 20paper 2 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Physics Exam 20paper 2 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Physics Exam 20paper 2 Mark Scheme
 - Setting Reading Goals Hsc Physics Exam 20paper 2 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Physics Exam 20paper 2 Mark Scheme
 - Fact-Checking eBook Content of Hsc Physics Exam 20paper 2 Mark Scheme
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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