

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)

Hsc Physics Exam 20paper 2 Mark Scheme

AN Whitehead



Hsc Physics Exam 20paper 2 Mark Scheme:

The book delves into Hsc Physics Exam 20paper 2 Mark Scheme. Hsc Physics Exam 20paper 2 Mark Scheme is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Hsc Physics Exam 20paper 2 Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Hsc Physics Exam 20paper 2 Mark Scheme
- Chapter 2: Essential Elements of Hsc Physics Exam 20paper 2 Mark Scheme
- Chapter 3: Hsc Physics Exam 20paper 2 Mark Scheme in Everyday Life
- Chapter 4: Hsc Physics Exam 20paper 2 Mark Scheme in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Hsc Physics Exam 20paper 2 Mark Scheme. This chapter will explore what Hsc Physics Exam 20paper 2 Mark Scheme is, why Hsc Physics Exam 20paper 2 Mark Scheme is vital, and how to effectively learn about Hsc Physics Exam 20paper 2 Mark Scheme.

3. In chapter 2, the author will delve into the foundational concepts of Hsc Physics Exam 20paper 2 Mark Scheme. This chapter will elucidate the essential principles that need to be understood to grasp Hsc Physics Exam 20paper 2 Mark Scheme in its entirety.

4. In chapter 3, this book will examine the practical applications of Hsc Physics Exam 20paper 2 Mark Scheme in daily life. The third chapter will showcase real-world examples of how Hsc Physics Exam 20paper 2 Mark Scheme can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Hsc Physics Exam 20paper 2 Mark Scheme in specific contexts. This chapter will explore how Hsc Physics Exam 20paper 2 Mark Scheme is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Hsc Physics Exam 20paper 2 Mark Scheme. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hsc Physics Exam 20paper 2 Mark Scheme.

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