

General Instructions:

- i) All the questions are compulsory.
- ii) **Section A** contains Q. No.1 contains ten Multiple Choice type of questions carrying one mark each.
Q No.2 contain eight Very Short Answer type of questions carrying one mark each.
- iii) **Section B** contains Q No. 3 to 14 of Short Answer type of questions carrying two marks each.
- iv) **Section C** contains Q no.15 to 26 of Short Answer type of questions carrying three marks each.
- v) **Section D** contains Q no.27 to 31 of Long Answer type of questions carrying four marks each.

SECTION A**Q1. Select and write correct answers:****[10]**

1. In a certain unit, the radius of gyration of a uniform disc about its central and transverse axis is $\sqrt{2.5}$. Its radius of gyration about a tangent in its plane (in the same unit) must be
 - (a) $\sqrt{5}$
 - (b) 2.5
 - (c) $2\sqrt{2.5}$
 - (d) $\sqrt{12.5}$
2. A hydraulic lift is designed to lift heavy objects of maximum mass 2000kg. The area of cross section of piston carrying the load is $2.25 \times 10^{-2} \text{ m}^2$. What is the maximum pressure the piston could have to bear?

(a) $0.8711 \times 10^6 \text{ N/m}^2$	(b) $0.5862 \times 10^7 \text{ N/m}^2$
(c) $0.4869 \times 10^5 \text{ N/m}^2$	(d) $0.3271 \times 10^4 \text{ N/m}^2$
3. The mean free path λ of molecules is given by

(a) $\sqrt{\frac{2}{\pi n d^2}}$	(b) $\frac{1}{\pi n d^2}$
	)

Physical Science G12 Prelim Exam Paper 2014 September

Xiaolong Qi



Physical Science G12 Prelim Exam Paper 2014 September:

This book delves into Physical Science G12 Prelim Exam Paper 2014 September. Physical Science G12 Prelim Exam Paper 2014 September is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science G12 Prelim Exam Paper 2014 September, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science G12 Prelim Exam Paper 2014 September
 - Chapter 2: Essential Elements of Physical Science G12 Prelim Exam Paper 2014 September
 - Chapter 3: Physical Science G12 Prelim Exam Paper 2014 September in Everyday Life
 - Chapter 4: Physical Science G12 Prelim Exam Paper 2014 September in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physical Science G12 Prelim Exam Paper 2014 September. This chapter will explore what Physical Science G12 Prelim Exam Paper 2014 September is, why Physical Science G12 Prelim Exam Paper 2014 September is vital, and how to effectively learn about Physical Science G12 Prelim Exam Paper 2014 September.
 3. In chapter 2, this book will delve into the foundational concepts of Physical Science G12 Prelim Exam Paper 2014 September. The second chapter will elucidate the essential principles that must be understood to grasp Physical Science G12 Prelim Exam Paper 2014 September in its entirety.
 4. In chapter 3, this book will examine the practical applications of Physical Science G12 Prelim Exam Paper 2014 September in daily life. The third chapter will showcase real-world examples of how Physical Science G12 Prelim Exam Paper 2014 September can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Physical Science G12 Prelim Exam Paper 2014 September in specific contexts. The fourth chapter will explore how Physical Science G12 Prelim Exam Paper 2014 September is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Physical Science G12 Prelim Exam Paper 2014 September. 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 Physical Science G12 Prelim Exam Paper 2014 September.

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