

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) $\frac{1}{\pi n d^2}$
)

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Guillaume Favre



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Table of Contents Physical Science G12 Prelim Exam Paper 2014 September

1. Understanding the eBook Physical Science G12 Prelim Exam Paper 2014 September
 - The Rise of Digital Reading Physical Science G12 Prelim Exam Paper 2014 September
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science G12 Prelim Exam Paper 2014 September
 - 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 Physical Science G12 Prelim Exam Paper 2014 September
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science G12 Prelim Exam Paper 2014 September
 - Personalized Recommendations
 - Physical Science G12 Prelim Exam Paper 2014 September User Reviews and Ratings
 - Physical Science G12 Prelim Exam Paper 2014 September and Bestseller Lists
5. Accessing Physical Science G12 Prelim Exam Paper 2014 September Free and Paid eBooks
 - Physical Science G12 Prelim Exam Paper 2014 September Public Domain eBooks
 - Physical Science G12 Prelim Exam Paper 2014 September eBook Subscription Services
 - Physical Science G12 Prelim Exam Paper 2014 September Budget-Friendly Options

6. Navigating Physical Science G12 Prelim Exam Paper 2014 September eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science G12 Prelim Exam Paper 2014 September Compatibility with Devices
 - Physical Science G12 Prelim Exam Paper 2014 September Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science G12 Prelim Exam Paper 2014 September
 - Highlighting and Note-Taking Physical Science G12 Prelim Exam Paper 2014 September
 - Interactive Elements Physical Science G12 Prelim Exam Paper 2014 September
8. Staying Engaged with Physical Science G12 Prelim Exam Paper 2014 September
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science G12 Prelim Exam Paper 2014 September
9. Balancing eBooks and Physical Books Physical Science G12 Prelim Exam Paper 2014 September
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science G12 Prelim Exam Paper 2014 September
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science G12 Prelim Exam Paper 2014 September
 - Setting Reading Goals Physical Science G12 Prelim Exam Paper 2014 September
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science G12 Prelim Exam Paper 2014 September
 - Fact-Checking eBook Content of Physical Science G12 Prelim Exam Paper 2014 September
 - 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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