



PHYSICS SSC-I 2009

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE:- Sections 'B' and 'C' comprise pages 1-2 and questions therein are to be answered on the separately provided answer book. Answer any eleven parts from Section 'B' and attempt any two questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 33)

Q. 2 Attempt any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. { 11 x 3 = 33 }

(i) Write any three methods to reduce friction.

(ii) Explain the graph:

- a. Line OM
- b. Point A
- c. Point B



(iii) A player throws a cricket ball with a velocity of 40 ms^{-1} at an angle of 60° with the ground. Find the horizontal and vertical components of the velocity of the ball.

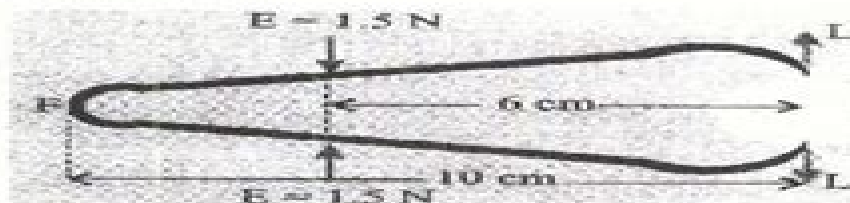
(iv) Why is the outer bank of the road kept slightly higher than the inner bank?

(v) Is there any difference between the values of ' g ' at the equator and at the poles? Explain.

(vi) An electric motor lifts a weight of 2 N upto a height of 5 m in 4 seconds. Find the power of the motor.

(vii) What are "Geostationary Satellites"?

(viii) According to the given figure, a piece of ice has been lifted by applying an effort of 1.5 N . If the length of the tongs is 10 cm , then find out the weight of the piece of ice?



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Table of Contents Standard Grade Physics Past Papers

1. Understanding the eBook Standard Grade Physics Past Papers
 - The Rise of Digital Reading Standard Grade Physics Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Standard Grade Physics Past Papers
 - 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 Standard Grade Physics Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Standard Grade Physics Past Papers
 - Personalized Recommendations
 - Standard Grade Physics Past Papers User Reviews and Ratings
 - Standard Grade Physics Past Papers and Bestseller Lists

5. Accessing Standard Grade Physics Past Papers Free and Paid eBooks
 - Standard Grade Physics Past Papers Public Domain eBooks
 - Standard Grade Physics Past Papers eBook Subscription Services
 - Standard Grade Physics Past Papers Budget-Friendly Options
6. Navigating Standard Grade Physics Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Standard Grade Physics Past Papers Compatibility with Devices
 - Standard Grade Physics Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Standard Grade Physics Past Papers
 - Highlighting and Note-Taking Standard Grade Physics Past Papers
 - Interactive Elements Standard Grade Physics Past Papers
8. Staying Engaged with Standard Grade Physics Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Standard Grade Physics Past Papers
9. Balancing eBooks and Physical Books Standard Grade Physics Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Standard Grade Physics Past Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Standard Grade Physics Past Papers
 - Setting Reading Goals Standard Grade Physics Past Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Standard Grade Physics Past Papers
 - Fact-Checking eBook Content of Standard Grade Physics Past Papers
 - 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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