

# 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.
- (iii) Explain the graph:
  - a. Line CA
  - b. Point #
  - e. Point B



- (iii) A player throws a cricket ball with a velocity of 40 m x<sup>-1</sup> 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 2N up to a height of 5m 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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**Lauren Gardner** 

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#### **Table of Contents Grade 1 physics Past Papers**

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

- Grade 1physics Past Papers and Bestseller Lists
- 5. Accessing Grade 1physics Past Papers Free and Paid eBooks
  - Grade 1physics Past Papers Public Domain eBooks
  - Grade 1physics Past Papers eBook Subscription Services
  - Grade 1physics Past Papers Budget-Friendly Options
- 6. Navigating Grade 1physics Past Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Grade 1physics Past Papers Compatibility with Devices
  - Grade 1physics Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 1physics Past Papers
  - Highlighting and Note-Taking Grade 1physics Past Papers
  - Interactive Elements Grade 1 physics Past Papers
- 8. Staying Engaged with Grade 1 physics Past Papers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 1physics Past Papers
- 9. Balancing eBooks and Physical Books Grade 1 physics Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 1 physics Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1 physics Past Papers
  - Setting Reading Goals Grade 1physics Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1physics Past Papers
  - Fact-Checking eBook Content of Grade 1physics 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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