



# 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.

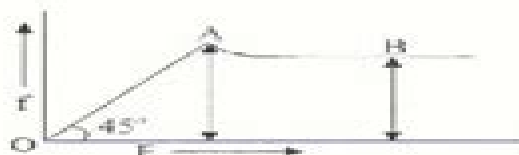
## SECTION – B (Marks 33)

**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  $40 \text{ m s}^{-1}$  at an angle of  $60^\circ$  with the ground. Find the horizontal and vertical components of the velocity of the ball.

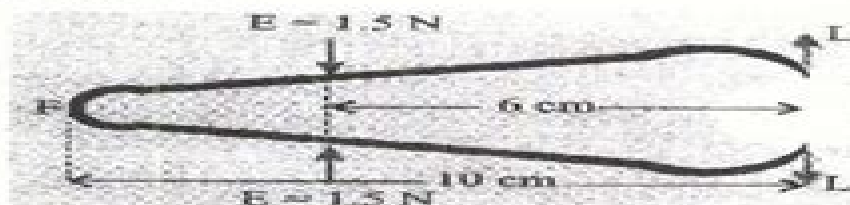
(iv) Why is the outer bank of the road kept slightly higher than the inner bank?

(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  $2 \text{ N}$  upto a height of  $5 \text{ m}$  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  $1.5 \text{ N}$ . If the length of the tongs is  $10 \text{ cm}$ , then find out the weight of the piece of ice?



# Physics Past Paper Jun 2013

**R Barnett**



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## **Table of Contents Physics Past Paper Jun 2013**

1. Understanding the eBook Physics Past Paper Jun 2013
  - The Rise of Digital Reading Physics Past Paper Jun 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Past Paper Jun 2013
  - 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 Physics Past Paper Jun 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Past Paper Jun 2013
  - Personalized Recommendations
  - Physics Past Paper Jun 2013 User Reviews and Ratings
  - Physics Past Paper Jun 2013 and Bestseller Lists
5. Accessing Physics Past Paper Jun 2013 Free and Paid eBooks
  - Physics Past Paper Jun 2013 Public Domain eBooks
  - Physics Past Paper Jun 2013 eBook Subscription Services
  - Physics Past Paper Jun 2013 Budget-Friendly Options
6. Navigating Physics Past Paper Jun 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Past Paper Jun 2013 Compatibility with Devices
  - Physics Past Paper Jun 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Past Paper Jun 2013
  - Highlighting and Note-Taking Physics Past Paper Jun 2013
  - Interactive Elements Physics Past Paper Jun 2013
8. Staying Engaged with Physics Past Paper Jun 2013

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Physics Past Paper Jun 2013
- 9. Balancing eBooks and Physical Books Physics Past Paper Jun 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Past Paper Jun 2013
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Past Paper Jun 2013
  - Setting Reading Goals Physics Past Paper Jun 2013
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Past Paper Jun 2013
  - Fact-Checking eBook Content of Physics Past Paper Jun 2013
  - 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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