



# 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  $40 \text{ ms}^{-1}$  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?



# O Level Physics Past Papers

**Cambridge International Examinations**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Cambridge International Examinations text.

## **O Level Physics Past Papers:**

O Level Physics Past Papers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. O Level Physics Past Papers : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. O Level Physics Past Papers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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