



# 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?



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**John Avison**



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