



PHYSICS SSC-I

Time allowed: 2-45 Hours

NOTE:

Answer any eleven parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly. 00003307

Total Marks Sections B and C: 52

SECTION - B (Marks 32)

Attempt any ELEVEN parts. All parts carry equal marks.

(11 x 3 = 33)

- (i) Mass of earth is 6.0×10^{24} Tera gram. Express this value in milligrams.
- (ii) A train slows down from 30 ms^{-1} with a uniform retardation of 2 ms^{-2} . How long will it take to attain a speed of 20 ms^{-1} ?

(iii) What is meant by the following terms?
a. Circular Motion

(iv) What is centripetal force? Also show that $r_c = \frac{mv^2}{F}$
b. Rotatory Motion

(v) Differentiate between 'weight' and 'mass'

(vi) Briefly explain 'center of mass' and 'center of gravity'. (Diagram is not required)

(vii) Calculate mass of earth by using law of gravitation. Also give an example.

(viii) Briefly explain the term 'Couple'. Also give an example.

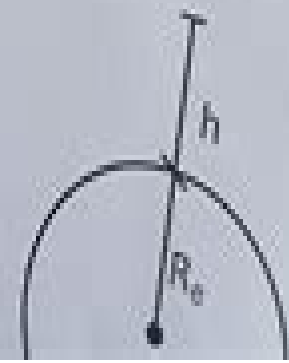
(ix) Determine the variation in value of 'g' with altitude. Also prove that $g_h = G \frac{M_e}{(R_e + h)^2}$

(x) Under what conditions work done on the body is maximum and minimum?

(xi) A car has Kinetic Energy "K". What will be the effect on "K" if the speed is halved?

(xii) Why is plasma often called as the fourth state of matter?

(xiii) Liquids exert pressure in all directions. Why?



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Disha Experts



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Sample Papers Of Class 1physics Sa1 Book Review: Unveiling the Power of Words

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