



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 36 km h^{-1} with a uniform retardation of 2 ms^{-2} . How long will it take to attain a speed of 20 ms^{-1} ?

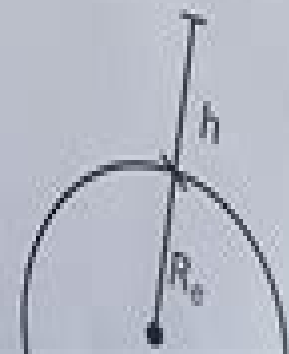
(iii) What is meant by the following terms?
a. Circular Motion

b. Rotatory Motion

c. Vibratory Motion

- (iv) What is centripetal force? Also show that $r_c = \frac{mv^2}{F}$
- (v) Differentiate between 'weight' and 'mass'
- (vi) Briefly explain 'center of mass' and 'center of gravity'.
- (vii) Calculate mass of earth by using law of gravitation. (Diagram is not required)
- (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 equally.
- (xiv) Define surface tension.

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Table of Contents Sample Papers Of Class 1physics Sa1

1. Understanding the eBook Sample Papers Of Class 1physics Sa1
 - The Rise of Digital Reading Sample Papers Of Class 1physics Sa1
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Papers Of Class 1physics Sa1
 - 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 Sample Papers Of Class 1physics Sa1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Papers Of Class 1physics Sa1
 - Personalized Recommendations
 - Sample Papers Of Class 1physics Sa1 User Reviews and Ratings
 - Sample Papers Of Class 1physics Sa1 and Bestseller Lists
5. Accessing Sample Papers Of Class 1physics Sa1 Free and Paid eBooks
 - Sample Papers Of Class 1physics Sa1 Public Domain eBooks

- Sample Papers Of Class 1physics Sa1 eBook Subscription Services
- Sample Papers Of Class 1physics Sa1 Budget-Friendly Options
- 6. Navigating Sample Papers Of Class 1physics Sa1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Papers Of Class 1physics Sa1 Compatibility with Devices
 - Sample Papers Of Class 1physics Sa1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Papers Of Class 1physics Sa1
 - Highlighting and Note-Taking Sample Papers Of Class 1physics Sa1
 - Interactive Elements Sample Papers Of Class 1physics Sa1
- 8. Staying Engaged with Sample Papers Of Class 1physics Sa1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Papers Of Class 1physics Sa1
- 9. Balancing eBooks and Physical Books Sample Papers Of Class 1physics Sa1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Papers Of Class 1physics Sa1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Papers Of Class 1physics Sa1
 - Setting Reading Goals Sample Papers Of Class 1physics Sa1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Papers Of Class 1physics Sa1
 - Fact-Checking eBook Content of Sample Papers Of Class 1physics Sa1
 - 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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