SUBJECT: PHYSICS CLASS | XIII

MAX. MARKS: 70 **DURATION: 3 HRS**

General Instruction:

- All questions are compulsory. There are 27 questions in all.
- 1110 This question paper has four sections: Section A, Section B, Section C and Section D.
- (iii) Section A contains five questions of one mark each, Section B contains seven questions of two marks each. Section C contains twelve questions of three marks each and Section D contains three questions of five marks each.
- (Buch There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- You may use the following values of physical constants wherever necessary: 600

$$\begin{split} c &= 3 \times 10^8 \, m/s, \quad h = 6.63 \times 10^{-94} \, Js, \quad e &= 1.6 \times 10^{-19} \, C, \quad \mu_0 = 4 \pi \times 10^{-7} \, Tm A^{-1}, \\ \varepsilon_0 &= 8.854 \times 10^{-12} \, C^2 N^{-1} m^{-2}, \quad m_e &= 9.1 \times 10^{-91} \, kg, \quad \frac{1}{4 \pi \varepsilon_0} = 9 \times 10^9 \, Nm^2 C^{-2}, \end{split}$$

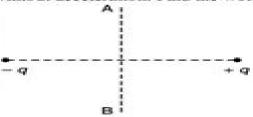
Mass of neutron = $1.675 \times 10^{-27} kg$.

Mass of proton = $1.673 \times 10^{-27} kg$.

Avogadro's number = 6.023×10^{23} per gram mole. Boltzmann constant = 1.38×10^{-23} JK⁻¹

SECTION - A Questions 1 to 5 carry 1 mark each.

- 1. Draw a graph to show a variation of resistance of a metal wire as a function of its diameter keeping its length and material constant.
- 2. A charge 'q' is moved from a point A above a dipole of dipole moment 'p' to a point B below the dipole in equatorial plane without acceleration. Find the work done in the process,



- Why is the use of AC voltage preferred over DC voltage? Give two reasons.
- 4. A concave lens of refractive index 1.5 is immersed in a medium of refractive index 1.65. What is nature shown by lens?
- 5. Name the essential components of a communication system.

SECTION - B Questions 6 to 12 carry 2 marks each.

 An α-particle and a proton are accelerated through the same potential difference. Calculate the ratio of linear momenta acquired by the two.

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Table of Contents Sample Paper Of Class 1cbse Physics

- 1. Understanding the eBook Sample Paper Of Class 1cbse Physics
 - The Rise of Digital Reading Sample Paper Of Class 1cbse Physics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Sample Paper Of Class 1cbse Physics
 - 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 Paper Of Class 1cbse Physics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sample Paper Of Class 1cbse Physics
 - Personalized Recommendations
 - Sample Paper Of Class 1cbse Physics User Reviews and Ratings
 - Sample Paper Of Class 1cbse Physics and Bestseller Lists
- 5. Accessing Sample Paper Of Class 1cbse Physics Free and Paid eBooks
 - Sample Paper Of Class 1cbse Physics Public Domain eBooks
 - Sample Paper Of Class 1cbse Physics eBook Subscription Services
 - Sample Paper Of Class 1cbse Physics Budget-Friendly Options
- 6. Navigating Sample Paper Of Class 1cbse Physics eBook Formats

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