

SUBJECT: PHYSICS
CLASS : XII

MAX. MARKS : 70
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory. There are 27 questions in all.
- (ii) 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.
- (iv) 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.
- (v) You may use the following values of physical constants wherever necessary :

$$c = 3 \times 10^8 \text{ m/s}, \quad h = 6.63 \times 10^{-34} \text{ Js}, \quad e = 1.6 \times 10^{-19} \text{ C}, \quad \mu_0 = 4\pi \times 10^{-7} \text{ TmA}^{-1},$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{N}^{-1} \text{m}^{-2}, \quad m_e = 9.1 \times 10^{-31} \text{ kg}, \quad \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{C}^{-2},$$

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

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

$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole}, \quad \text{Boltzmann constant} = 1.38 \times 10^{-23} \text{ JK}^{-1}$$

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.



3. 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.

6. 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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Minjie Lin

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1. Understanding the eBook Grade 1physcs Paper
 - The Rise of Digital Reading Grade 1physcs Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1physcs Paper
 - 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 Grade 1physcs Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1physcs Paper
 - Personalized Recommendations
 - Grade 1physcs Paper User Reviews and Ratings
 - Grade 1physcs Paper and Bestseller Lists

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