

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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Brendan G. Carr

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Table of Contents Grade Physics 2june Exam Paper

1. Understanding the eBook Grade Physics 2june Exam Paper
 - The Rise of Digital Reading Grade Physics 2june Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Physics 2june Exam 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 Physics 2june Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Physics 2june Exam Paper
 - Personalized Recommendations
 - Grade Physics 2june Exam Paper User Reviews and Ratings
 - Grade Physics 2june Exam Paper and Bestseller Lists
5. Accessing Grade Physics 2june Exam Paper Free and Paid eBooks
 - Grade Physics 2june Exam Paper Public Domain eBooks
 - Grade Physics 2june Exam Paper eBook Subscription Services

- Grade Physics 2june Exam Paper Budget-Friendly Options
- 6. Navigating Grade Physics 2june Exam Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Physics 2june Exam Paper Compatibility with Devices
 - Grade Physics 2june Exam Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Physics 2june Exam Paper
 - Highlighting and Note-Taking Grade Physics 2june Exam Paper
 - Interactive Elements Grade Physics 2june Exam Paper
- 8. Staying Engaged with Grade Physics 2june Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Physics 2june Exam Paper
- 9. Balancing eBooks and Physical Books Grade Physics 2june Exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Physics 2june Exam Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade Physics 2june Exam Paper
 - Setting Reading Goals Grade Physics 2june Exam Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade Physics 2june Exam Paper
 - Fact-Checking eBook Content of Grade Physics 2june Exam 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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