

**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  $\alpha$  -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 Grade 12 Physics Papernotes**

1. Understanding the eBook Grade 12 Physics Papernotes
  - The Rise of Digital Reading Grade 12 Physics Papernotes
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Physics Papernotes
  - 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 12 Physics Papernotes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Physics Papernotes
  - Personalized Recommendations
  - Grade 12 Physics Papernotes User Reviews and Ratings
  - Grade 12 Physics Papernotes and Bestseller Lists
5. Accessing Grade 12 Physics Papernotes Free and Paid eBooks

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