

CBSE Class 12 Physics Question Paper 2011

PHYSICS (Theory) भौतिक विज्ञान (सैद्धान्तिक)

Time allowed : 3 hours

निर्धारित समय : 3 घण्टे

Maximum Marks: 100

अधिकतम अंक : 100

General Instructions :

- All questions are compulsory.
- There are 30 questions in total. Questions 1 to 8 are very short answer type questions and carry one mark each.
- Questions 9 to 18 carry two marks each, questions 19 to 27 carry three marks each and questions 28 to 30 carry five marks each.
- 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 three questions of five marks each. You have to attempt only one of the choices in such questions.
- Use of calculators is not permitted. However, you may use log tables if necessary.
- You may use the following values of physical constants wherever necessary

$$c = 3 \times 10^8 \text{ m/s}$$

$$h = 6.63 \times 10^{-34} \text{ Js}$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ T m A}^{-1}$$

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

सामान्य निर्देश :

- सभी प्रश्न अनिवार्य हैं।
- इस प्रश्न-पत्र में कुल 30 प्रश्न हैं। प्रश्न 1 से 8 तक के प्रश्न अति-तुल्यवर्ती प्रश्न हैं और प्रत्येक एक अंक का है।
- प्रश्न 9 से 18 में प्रत्येक प्रश्न दो अंक का है, प्रश्न 19 से 27 में प्रत्येक प्रश्न तीन अंक का है तथा प्रश्न 28 से 30 में प्रत्येक प्रश्न पाँच अंक का है।
- प्रश्न-पत्र में समय पर कोई विकल्प नहीं है। तब भी, दो अंकों वाले एक प्रश्न में, तीन अंकों वाले एक प्रश्न में और पाँच अंकों वाले तीनों प्रश्नों में आन्तरिक चयन प्रदान किया गया है। ऐसे प्रश्नों में आपको दिये गये चयन में से केवल एक प्रश्न ही करना है।

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1. Understanding the eBook Grade 12 Question Papers 2011
 - The Rise of Digital Reading Grade 12 Question Papers 2011
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Question Papers 2011
 - 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 Question Papers 2011
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Question Papers 2011
 - Personalized Recommendations
 - Grade 12 Question Papers 2011 User Reviews and Ratings
 - Grade 12 Question Papers 2011 and Bestseller Lists
5. Accessing Grade 12 Question Papers 2011 Free and Paid eBooks
 - Grade 12 Question Papers 2011 Public Domain eBooks
 - Grade 12 Question Papers 2011 eBook Subscription Services
 - Grade 12 Question Papers 2011 Budget-Friendly Options

6. Navigating Grade 12 Question Papers 2011 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 Question Papers 2011 Compatibility with Devices
 - Grade 12 Question Papers 2011 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 Question Papers 2011
 - Highlighting and Note-Taking Grade 12 Question Papers 2011
 - Interactive Elements Grade 12 Question Papers 2011
8. Staying Engaged with Grade 12 Question Papers 2011
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 Question Papers 2011
9. Balancing eBooks and Physical Books Grade 12 Question Papers 2011
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 Question Papers 2011
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12 Question Papers 2011
 - Setting Reading Goals Grade 12 Question Papers 2011
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12 Question Papers 2011
 - Fact-Checking eBook Content of Grade 12 Question Papers 2011
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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