

SUBJECT: PHYSICS
CLASS : XII

MAX. MARKS : 70
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory. There are 26 questions in all.
- (ii) This question paper has five sections : Section A, Section B, Section C, Section D and Section E.
- (iii) Section A contains five questions of one mark each, Section B contains five questions of two marks each, Section C contains twelve questions of three marks each, Section D contains one value based question of four marks and Section E 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 :

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

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

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

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

$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole},$$

$$\text{Boltzmann constant} = 1.38 \times 10^{-23} \text{ JK}^{-1}$$

SECTION – A

Questions 1 to 5 carry 1 mark each.

1. A concave lens of refractive index 1.5 is immersed in a medium of refractive index 1.65. What is the nature of the lens ?
2. What is the meaning of the term 'attenuation' used in communication system?
3. Define the term conductivity of a conductor. On what factors does it depend.
4. What is the electric flux through a cube of side 1 cm which encloses an electric dipole ?
5. What can be the cause of helical motion of charged particle?

SECTION – B

Questions 6 to 10 carry 2 marks each.

6. Show that the radius of the orbit in hydrogen atom varies as n^2 , where n is the principal quantum number of the atom.
7. Distinguish between 'intrinsic' and 'extrinsic' semiconductors.
8. Use the mirror equation to show that an object placed between f and $2f$ of a concave mirror produces a real image beyond $2f$.

OR

Find an expression for intensity of transmitted light when a polaroid sheet is rotated between two crossed polaroids. In which position of the polaroid sheet will the transmitted intensity be maximum ?

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RJ Alexander



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Table of Contents Physics 97june 2013 Paper 12

1. Understanding the eBook Physics 97june 2013 Paper 12
 - The Rise of Digital Reading Physics 97june 2013 Paper 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 97june 2013 Paper 12
 - 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 Physics 97june 2013 Paper 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 97june 2013 Paper 12

- Personalized Recommendations
- Physics 97june 2013 Paper 12 User Reviews and Ratings
- Physics 97june 2013 Paper 12 and Bestseller Lists
- 5. Accessing Physics 97june 2013 Paper 12 Free and Paid eBooks
 - Physics 97june 2013 Paper 12 Public Domain eBooks
 - Physics 97june 2013 Paper 12 eBook Subscription Services
 - Physics 97june 2013 Paper 12 Budget-Friendly Options
- 6. Navigating Physics 97june 2013 Paper 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics 97june 2013 Paper 12 Compatibility with Devices
 - Physics 97june 2013 Paper 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 97june 2013 Paper 12
 - Highlighting and Note-Taking Physics 97june 2013 Paper 12
 - Interactive Elements Physics 97june 2013 Paper 12
- 8. Staying Engaged with Physics 97june 2013 Paper 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 97june 2013 Paper 12
- 9. Balancing eBooks and Physical Books Physics 97june 2013 Paper 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 97june 2013 Paper 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics 97june 2013 Paper 12
 - Setting Reading Goals Physics 97june 2013 Paper 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics 97june 2013 Paper 12

- Fact-Checking eBook Content of Physics 97june 2013 Paper 12
- 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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