

- (vii) An A.C. circuit consists of inductance of inductance 125 mH connected in parallel with a capacitor of capacity 50 μ F. Determine the resonant frequency.
- (viii) Calculate the de Broglie wavelength of an electron moving with $\frac{1}{3}$ rd of the speed of light in vacuum (Neglect relativistic effect)
(Planck's constant : $h = 6.63 \times 10^{-34}$ Js, Mass of electron : $m = 9.11 \times 10^{-28}$ g)

Q. 7. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) If numerical aperture of a microscope is increased, then its _____.
(a) resolving power decreases (b) limit of resolution decreases
(c) resolving power remains constant (d) limit of resolution increases.
- (ii) A solenoid of length 1.5 m and 4 cm in diameter possesses 10 turns per metre. A current of 5 A is flowing through it. The magnetic induction at a point inside the solenoid along the axis is _____. ($\mu_0 = 4\pi \times 10^{-7}$ Wb/Am)
(a) $\pi \times 10^{-5}$ T (b) $2\pi \times 10^{-5}$ T (c) $3\pi \times 10^{-5}$ T (d) $4\pi \times 10^{-5}$ T
- (iii) Kirchhoff's voltage law and current law are respectively in accordance with the conservation of _____.
(a) charge and momentum (b) charge and energy
(c) energy and charge (d) energy and momentum
- (iv) When radiations of wavelength λ_1 and λ_2 are incident on certain photosensitive material, the energies of electron ejected are E_1 and E_2 respectively, such that $E_1 > E_2$. Then Planck's constant 'h' is _____.
(C = Velocity of light).
(a) $\frac{(E_1 - E_2)(\lambda_1 - \lambda_2)}{C(\lambda_1 \cdot \lambda_2)}$ (b) $\frac{(E_1 - E_2)\lambda_1 C}{(\lambda_1 - \lambda_2)\lambda_2}$
(c) $\frac{(E_1 - E_2)\lambda_1 \lambda_2}{C(\lambda_2 - \lambda_1)}$ (d) $\frac{(\lambda_1 - \lambda_2)C}{(E_1 - E_2)\lambda_1 \cdot \lambda_2}$
- (v) Colour of light emitted by LED depends upon _____.
(a) its forward bias
(b) its reverse bias
(c) the band gap of the material of semiconductor
(d) its size
- (vi) Line of sight propagation is also called as _____ propagation.
(a) sky wave (b) ground wave (c) sound wave (d) space wave
- (vii) Two parallel plates separated by distance d are kept at potential difference V volt. A charge q of mass m enters in parallel plates with some velocity. The acceleration of the charged particle will be _____.
(a) $\frac{qV}{dm}$ (b) $\frac{dm}{qV}$ (c) $\frac{qm}{dV}$ (d) $\frac{dV}{qm}$

Q. 8. Explain the phenomenon of self induction and mutual induction. Define coefficient of self induction and mutual induction. Write the SI unit and dimensions of coefficient of self induction.

A potentiometer wire has a length of 4 m and a resistance of 5 Ω .

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Jiyuan Zhang

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Table of Contents Hsc 2014 Physics Paper Answer

1. Understanding the eBook Hsc 2014 Physics Paper Answer
 - The Rise of Digital Reading Hsc 2014 Physics Paper Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2014 Physics Paper Answer
 - 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 Hsc 2014 Physics Paper Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2014 Physics Paper Answer
 - Personalized Recommendations
 - Hsc 2014 Physics Paper Answer User Reviews and Ratings
 - Hsc 2014 Physics Paper Answer and Bestseller Lists
5. Accessing Hsc 2014 Physics Paper Answer Free and Paid eBooks
 - Hsc 2014 Physics Paper Answer Public Domain eBooks
 - Hsc 2014 Physics Paper Answer eBook Subscription Services
 - Hsc 2014 Physics Paper Answer Budget-Friendly Options

6. Navigating Hsc 2014 Physics Paper Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2014 Physics Paper Answer Compatibility with Devices
 - Hsc 2014 Physics Paper Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2014 Physics Paper Answer
 - Highlighting and Note-Taking Hsc 2014 Physics Paper Answer
 - Interactive Elements Hsc 2014 Physics Paper Answer
8. Staying Engaged with Hsc 2014 Physics Paper Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc 2014 Physics Paper Answer
9. Balancing eBooks and Physical Books Hsc 2014 Physics Paper Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2014 Physics Paper Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc 2014 Physics Paper Answer
 - Setting Reading Goals Hsc 2014 Physics Paper Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc 2014 Physics Paper Answer
 - Fact-Checking eBook Content of Hsc 2014 Physics Paper Answer
 - 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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