

- (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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Grahame Pollock



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