

- (vii) An A.C. circuit consists of inductance of inductance 125 mH connected in parallel with a capacitor of capacity 50  $\mu$ F. Determine the resonant frequency.
- (viii) Calculate the de Broglie wavelength of an electron moving with  $\frac{1}{3}$ <sup>rd</sup> 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  $\lambda_1$  and  $\lambda_2$  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  $\Omega$ .

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**R Sandford**



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