

SECTION - II

- Q. 5.** Obtain an expression for the induced e.m.f. in a coil rotating with uniform angular velocity in uniform magnetic field. Plot a graph of variation of induced e.m.f. against phase ($\theta = \omega t$) over one cycle. The energy density at a point in a medium of dielectric constant 6 is $26.55 \times 10^6 \text{ J/m}^3$. Calculate electric field intensity at that point. ($\epsilon_0 = 8.85 \times 10^{-12} \text{ SI units}$).

[7]

OR

- Q. 5.** Write notes on : (a) Nuclear fission (b) Nuclear fusion
A galvanometer has a resistance of 16Ω . It shows full scale deflection, when a current of 20 mA is passed through it. The only shunt resistance available is 0.06Ω which is not appropriate to convert a galvanometer into an ammeter. How much resistance should be connected in series with the coil of galvanometer, so that the range of ammeter is 8 A ?

[7]

- Q. 6. Attempt any THREE :**

[9]

- (i) Draw a well labelled diagram of photoelectric cell. Explain the observations made by Hertz and Lenard about the phenomenon of photoelectric emission.
- (ii) Explain the working of transistor as a switch.
- (iii) The refractive indices of water for red and violet colours are 1.325 and 1.334 respectively. Find the difference between the velocities of rays for these two colours in water. ($C = 3 \times 10^8 \text{ m/s}$)
- (iv) In Young's experiment, the ratio of intensity at the maxima and minima in an interference pattern is $36 : 9$. What will be the ratio of the intensities of two interfering waves?

- Q. 7. Attempt any SIX :**

[12]

- (i) Explain the principle of potentiometer.
- (ii) What is (a) Magnetization and (b) Magnetic intensity ?
- (iii) What do you mean by polar molecules and non-polar molecules ? Give 'one' example each.
- (iv) The minimum angular separation between two stars is $4 \times 10^{-6} \text{ rad}$, if telescope is used to observe them with an objective of aperture 16 cm . Find the wavelength of light used.
- (v) Explain the need for modulation related to the size of antenna (aerial).
- (vi) Four resistances 4Ω , 8Ω , $X \Omega$ and 6Ω are connected in a series so as to form Wheatstone's network. If the network is balanced. Find the value of 'X'.
- (vii) The magnetic susceptibility of annealed iron at saturation is 4224 . Find the permeability of annealed iron at saturation. ($\mu_0 = 4 \pi \times 10^{-7} \text{ SI unit}$)

- Q. 8. Select and write the most appropriate answer from the given alternatives for each sub-question :**

[7]

- (i) A ray of light passes from a vacuum to a medium of refractive index (μ). The angle of incidence is found to be twice the angle of refraction. The angle of incidence is _____.
 (a) $\cos^{-1}\left(\frac{\mu}{2}\right)$ (b) $\cos^{-1}(\mu)$ (c) $2\cos^{-1}\left(\frac{\mu}{2}\right)$ (d) $2\sin^{-1}\left(\frac{\mu}{2}\right)$
- (ii) The fringes produced in diffraction pattern are of _____.
 (a) equal width with same intensity. (b) unequal width with varying intensity.
 (c) equal intensity. (d) equal width with varying intensity.

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Christian Drosten



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