

## 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  $16 \Omega$ . It shows full scale deflection, when a current of  $20 \text{ mA}$  is passed through it. The only shunt resistance available is  $0.06 \Omega$  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  $8 \text{ A}$  ?

[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  $16 \text{ cm}$ . Find the wavelength of light used.
- (v) Explain the need for modulation related to the size of antenna (aerial).
- (vi) Four resistances  $4 \Omega$ ,  $8 \Omega$ ,  $X \Omega$  and  $6 \Omega$  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 ( $\mu$ ). 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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**Wenbin Ji**



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web the speed of sound in air is affected by temperature and system errors the room temperature was 22c instead of 0c and this is the most likely cause of varying velocity

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web eq 1 in order to determine the velocity we have to set up a vibration in the medium determine the frequency and wavelength and calculate the velocity of propagation from

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web the speed of sound depends on properties of the medium such as bulk modulus density and temperature to calculate the speed of sound in air v we will determine the

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