

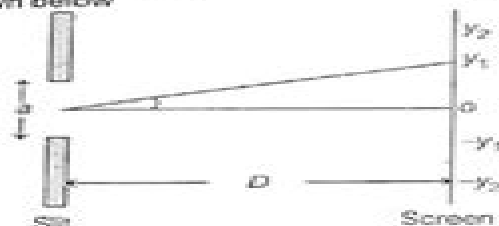
4. (a) The wavelength of line in case of Balmer series is given by

$$\frac{1}{\lambda} = R \left( \frac{1}{2^2} - \frac{1}{n^2} \right), \text{ where } n = 3, 4, 5, \dots$$

and  $R$  = Rydberg constant.

So, for Balmer series, the transition takes from third orbit to second for first line spectrum, fourth orbit to second for second line spectrum and so on. Hence, given transition represents second line of Balmer series.

5. (b) The diffraction pattern due to a single slit is shown below



The width of central maximum is given by

$$2y = \frac{2D\lambda}{a} \quad \dots (i)$$

where,  $\lambda$  = wavelength of incident light.

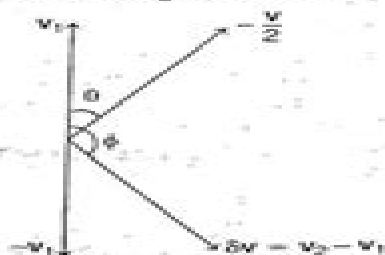
Here,  $a = 2y$ , then from Eq. (i), we get

$$a = \frac{2D\lambda}{a} \Rightarrow D = \frac{a^2}{2\lambda}$$

6. (b) The direction of change in velocity ( $\delta v$ ) is given by

$$\phi = \frac{180^\circ - \theta}{2} = 90^\circ - \frac{\theta}{2} \quad \dots (i)$$

This can be shown graphically as



For small time interval, i.e.,  $\delta t \rightarrow 0$ , then angle between  $v_1$  and  $v_2$  is very small i.e.,  $\theta = 0^\circ$ .

So, from Eq. (i), we get

$$\phi = 90^\circ$$

7. (a) For  $p$  number of loops in a stretched string, the length is given by

$$l = \frac{p\lambda}{2} \quad \dots (i)$$

As, number of harmonics = number of loops =

number of anti-nodes =  $p$  ... (ii)

Also, number of nodes = number of anti-nodes + 1

Here, number of nodes =  $m$

Number of anti-nodes =  $m - 1$

from Eq. (ii)

$$p = m - 1$$

Putting this value of  $p$  in Eq. (i), we get

$$l = \frac{(m-1)\lambda}{2}$$

8. (a) In linear simple harmonic motion, the velocity of particle is given by

$$v = \omega \sqrt{A^2 - x^2} \quad \dots (i)$$

where,  $\omega$  = angular frequency

$A$  = maximum displacement of amplitude

and  $x$  = displacement from mean position.

The acceleration of a particle in simple harmonic motion, (SHM) is given by

$$a = \omega^2 x \quad \dots (ii)$$

Here,

$$x = \frac{A}{2}$$

Also,

$$v = a$$

(given)

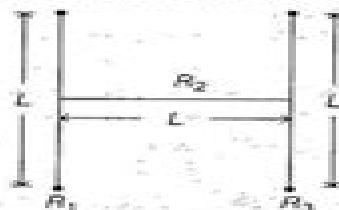
$\omega \sqrt{A^2 - x^2} = \omega^2 x$  [from Eqs. (i) and (ii), we get]

$$\Rightarrow \sqrt{A^2 - \frac{A^2}{4}} = \omega \times \frac{A}{2} \Rightarrow \frac{\sqrt{3} A}{2} = \omega \times \frac{A}{2}$$

$$\Rightarrow \frac{2\pi}{T} = \sqrt{3} \quad \left[ \because \omega = \frac{2\pi}{T} \right]$$

$$\Rightarrow T = \frac{2\pi}{\sqrt{3}} \text{ s}$$

9. (d) The given situation can be shown as



Let us take the moment of inertia of the system about rod  $R_1$ , then total moment of inertia is

$$I_T = I_1 + I_2 + I_3 \quad \dots (i)$$

# Physics Cet Question Paper

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