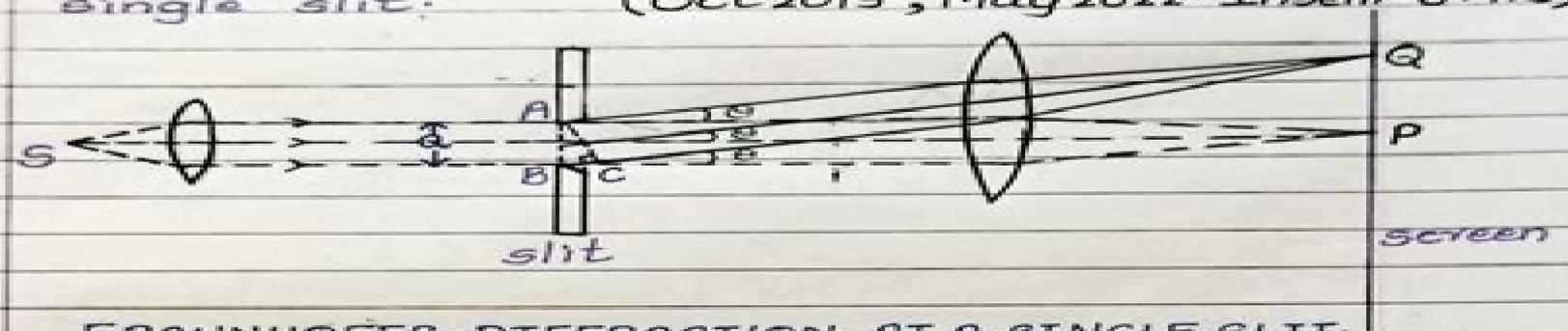


Q.2 Derive an expression for resultant amplitude and resultant intensity between the diffracted waves in Fraunhofer diffraction due to a single slit. (Oct 2019, May 2022 - Insem - 6 Mks)



FRAUNHOFER DIFFRACTION AT A SINGLE SLIT.

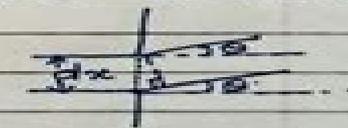
Let AB be a single slit of width 'a' which is illuminated by a monochromatic light of wavelength  $\lambda$ .

Point P: The secondary waves travelling normally to the slit are focussed at point P where intensity is maximum.

Point Q: The secondary waves diffracted at an angle ' $\theta$ ' are focussed at point Q on the screen.

To find the resultant at point Q, the slit AB is divided into 'N' slits each of width 'dx'.

$\therefore a = dx_1 + dx_2 + dx_3 + \dots + dx_N$



$\therefore$  Path difference between rays from individual slits =  $dx \sin \theta$   
and Phase difference =  $\frac{2\pi}{\lambda} (dx \sin \theta)$

$\therefore$  Total path difference between rays from top and bottom edge of slit =  $a \sin \theta$  --- (1)

and total phase difference ( $\phi$ ) =  $\frac{2\pi}{\lambda} (a \sin \theta)$  --- (2)

continued  $\rightarrow$

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**Lei Huang**



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