

DIFFRACTION H.W.

1. In a single slit diffraction pattern, the distance between the first minimum on the right and the first minimum on the left is 5.2 mm. The screen on which the pattern is displayed is 80 cm from the slit and the wavelength is 5460 \AA . Calculate the slit width.
2. If an interference pattern has maximum and minimum intensities in 36:1 ratio then what will be the ratio of amplitudes. **[JEE 2011]**
a) 5 : 7 b) 7 : 4 c) 4 : 7 d) 7 : 5

