**Q7.** Calculate the minimum number of lines required on grating that can just resolve the two sodium lines 1=5890A and 2=5893 A in third order.

**Given:-**  1=5890 x 10-8 cm,  2=5893 x 10-8cm , m=3

**Formula:-** Resolving power =

**Solution:-** = = 5893 x 10-8 cm

d= (5896-5890)x10-8 = 6x10-8 cm

N = = 327

**Ans:- Minimum of 327 lines are required on the grating.**