Q2. The refractive index of core and cladding of a SI fiber are 1.52 and 1.41 respectively. Calculate (i) critical angle (ii) NA and (iii) maximum incidence angle.

**Given:-**;

**Formula:-** ;

**Solution:-**= sin-1()= 68.06˚

N.A.= = 0.5677

= sin-1(0.5677)

= 34.59**˚**

**Ans:- The critical angle is 68.06˚ and N.A. is 0.5677 and is 34.59˚**