riven dala: n d. waler = i.33 O vilh suface. 20° n= 1.5 A/c lo law of replections Angle of incident =
Angle of reflection 00 = 00 00 = 20 : Some of incedere hearn

Scarnieu with CamSo

## (Parl b)

As we Know:na sin Oa = nbsin Ob

Bil Etese O are with the normal lo the surface so,

Oa = 90° - 20°

[ Oa= 70']

Now Le Know,

na = 1.33, nb = 1.5, Oa=70°

(1.33) (sin 70') = (1.5) (sin 0b)

 $Sin \Theta b = (1.33)(sin 70^{\circ})$ 

SINOB = 0.83258 Ob = sin'(0.83258) Ob = 56.36' (with noomd)

06 (with supace) - 90 - 56.4' 106 = 33.5. (Parl c) In waler: U= C K. - 3.0x10ms [Un = 2.5 x 10 ms] In Quarlz:-Vy = 3.0 x 10 ms / Vy - 2 x loms