BLAZER IN :- SSRINIYA X 04/27/2022 PH 222-2A Note: - knowering law question fort! Diestron 2 = -NB. (0.12) x pl - -2.85× 0.12× 0-7727 = -0.26334 V X7 6 1 emp 1= 1.84338V E psychon travered ? 0.03949 A

(D)

NAME :- SHREYAS SRINT

Question 3

An: Everent coming from a to a will equally for distrable to both restance branches of and ap.

Hence, pursuit in ef = I

= 1.799 2

I et = 0.8995 amp

4 raition 4

Auso At the moment when the purition is closed, the induction acts by our popon circuit.

T2 6.952

 $I_2 = \frac{7.52}{2.23+6.9}$ 

= 0,824A

2 noitears

Au: (a) your down of Reflection,

Greident angle = Reflected angle

0; 2 0 R

70° = 0 R

: OR = 70°

(b) Your Snell's love:

m, sin 0; = m2 sin 0,000

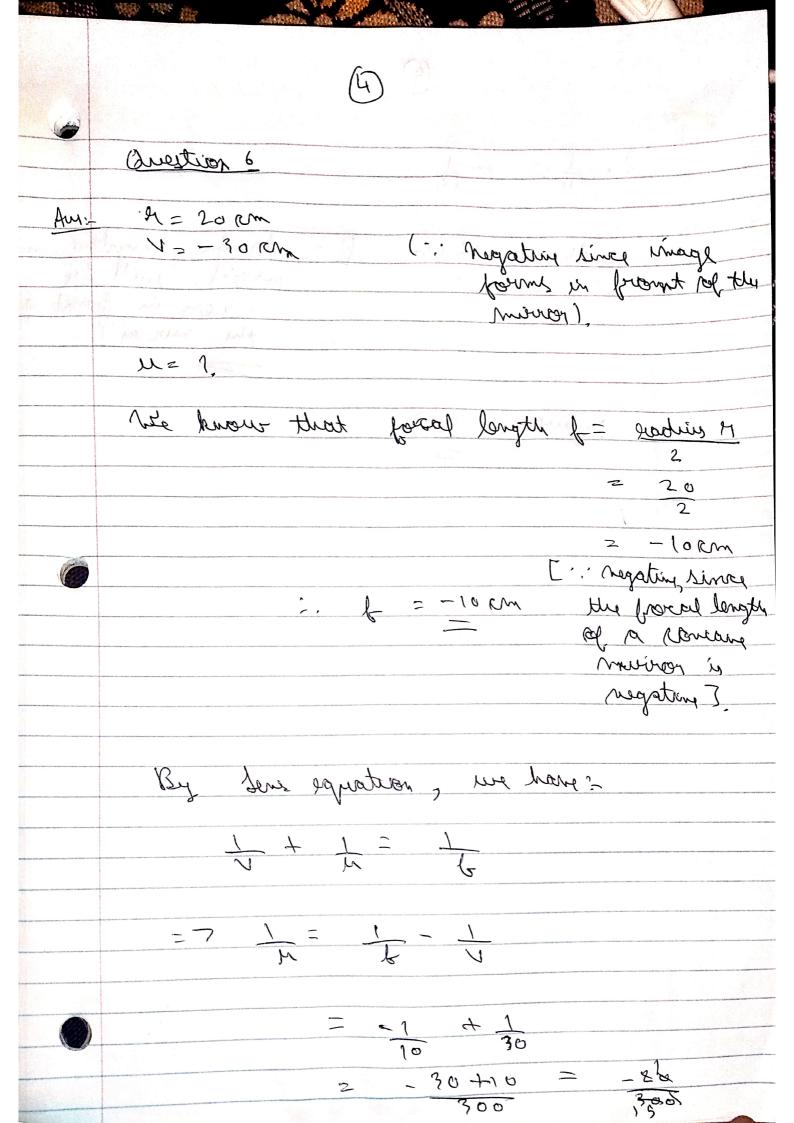
1. bin 70° = 1,33 sin Opg 0.939 = sin Opg 1.33

0,706 5 = Sin Deg

De = sin-1 (0.7069)

Dy 2 44.953 Dy 2 45°

Angles of reflection and refraction are



:. \_ - 1 h = - 1 M Z - 15 cm [: Again, magating sing polysist will be 15 cm in fromt pg. Auswer :- (a) Question 1 Lyner -R, 2 1.82 pm 6 R 2 21.75 MM R 3 2 47.55 pim d = 7,91 hat phonge = -9.25 pc Charace at 4.25 pm sphere = Q = dr = 7.91 × 4.25 = 33.6175 pc And, (E), d3 = 9

E \* 4TT 912 2 Q

E = Q x 1 20 4TH 912

 $= \frac{33.6175 \times 10^{-6}}{8.85 \times 10^{-12} \times 4\pi \times (4-25 \times 10^{-6})^{2}}$ 

= 33.6175 ×16-6 8.85×10-12 ×4×3.142×18.0625×10-12

- 33.6175 × 10-6 2009.034 × 10-24

= 0.0167 × 1018

2 1.67×1016 N/C

:. E= 1.67 x1016 N/C